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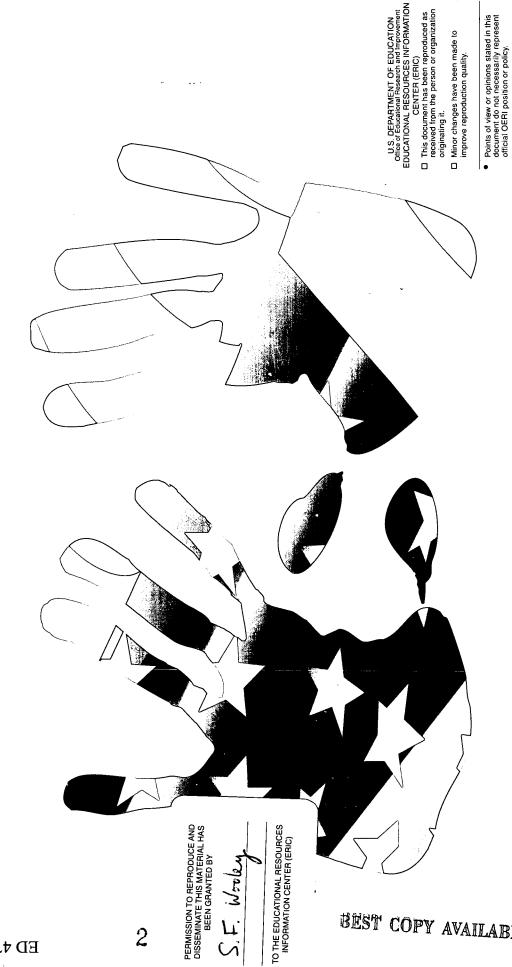
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\*Nutrition; \*Physical Activity Level; \*School Health Services

#### **ABSTRACT**

This report presents state-level data collected by mail from March-June 1994 via the School Health Program and Policies Study, which was designed to measure success in meeting school-specific items among the Healthy People 2000 national objectives as well as one of the National Education Goals. Five chapters on health education, health services, healthful school environment, physical education, and nutrition services each describe: the state organization, the coordination of the respective components at the state level with other agencies, programming, certification requirements for personnel at the district and school level, and response to four open ended questions (What would you like to do that you have been unable to do in your state? What has prevented you from doing these things? What has been the most helpful in improving your component of the coordinated school health program in your state? and What suggestions do you have for improving the state component?). Six articles explore state support for the five components of school health programs: "Introduction" (Diane D. Allensworth); "Health Education" (Mal Goldsmith and Sherri T. Reynolds); "School Health Services" (Elizabeth Gregory); "Healthful School Environment" (Marcia Rubin); "Physical Activity" (JoAnne Owens-Nauslar and Darrel Lang); and "School Food and Nutrition Services" (Kweethai Chin Neill). (Papers contain references.) (SM)





An Assessment of State Policies to Protect and Improve the Health of Students

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### School Health In America

# Introduction

Diane D. Allensworth, Ph.D., R.N.



cost-effective; the social and

Prevention efforts are

economic costs of inaction

are intolerable. School

and related health problems

failure, underachievement,

have serious repercussions

outh are one-third of the U.S. population and all of its future. Promoting the health and

well-being of children benefits a society economically and socially.<sup>2</sup> Children represent an important natural resource for any society.<sup>3</sup>

Schools transmit culture to young people and prepare them to become productive, capable citizens. They are responsible for students' academic achievement and also for nurturing them. By providing comprehensive and integrated services for all young people, schools provide the nurture and protection that societies want for their children.<sup>2</sup>

#### Rationale for a Coordinated School Health Program

Academic achievement has become a prerequisite for earning a living wage in modern societies. The Hudson Institute's Workforce 2000 report noted that unless basic work skills are improved substantially, societies will face increased joblessness

among the least skilled, accompanied by a chronic shortage of workers with advanced skills.<sup>4</sup> Basic to the future of a nation is an educated populace that can maintain economic productivity.

An estimated one-third of the schoolaged population (approximately 15 million children) in the U.S. is at risk of failing in school. Academic failure increases the likelihood that students will drop out of school prematurely. School dropouts are more likely to be poor, have costly medical problems as a result of their economic status, require job training and populate U.S. prisons.<sup>5</sup>

dropouts on the nation's budget, workforce, and ability to compete globally in the future is reflected in the National Education Goal to attain at least a 90% high school graduation rate by the year 2000. A comprehensive program of interventions that deliver a range of human services to school-aged children and youth at risk of school failure can reduce school



Creating an Agenda for School Based Health

and ultimately the economic

health of the nation.1

for students, their families,

Promotion, Harvard School of

Public Health, 1992

Federal, State and Local Accountability

Figure 1.1

Health Promotion for Program Coordination Physical Education Health Education Nutrition Service Psychology, and Health Services Improvement School Health Social Work Committees School Health Counseling, Coordinator School Health Staff Council School-Community Coordin Monitoring and Assess ing Council Participant Technical Assistance School Board Policy Inservice Training School Programs District School Coordinating Resources Funding Council Health , Monitor and Assess District Facilitate Community-wide Action Plans for Continuous 'mprovement in Students' Assure a Medical Home Develop and Implement Achievement, Health and Conduct Needs Assessments and Evaluations School-Community Coordinate Agency Resources for Youth for All Students School Health Coordinating Programming nteragency Council for Programs Committee For School Health National/State Coordinating Safety Technical Assistance Mandated Programs State Interagency/ District Programs . Monitoring and Assessment of Credentialing School Health Coordinating Resources Legislation Council for Funding School Health Extension Service Agriculture Extension Service Education Service Units Professional Organizations Standards of Practice by Area Health Centers Coordinated Programs Technical Assistance Federal Interagency\ Assessment of State Federal Guidelines Monitoring and School Health Coordinating Funding for Resources Legislation Council for Programs

The Vision

Focus on priority student behaviors that interfere with learning and long-term well being

Support and nurture students

Use program planning models (data based decision making) to achieve goals

Coordinate multiple programs Use multiple strategies

Healthy Environment

Foster interdisciplinary and interagency collaboration Actively involve students

Actively involve students' families

Provide for continuous staff development

Adapted from: Allensworth D. Healthy Students 2000. Kent, OH: American School Health Association; 1993.

failure and improve student health and academic achievement.

demic achievement and thus a producsmoking, alcohol, seat belts, sexual activity, more, behaviors that underlie many public from preschool can contribute to a healthy ence available for delivering many services tive workforce but also to the nation's contributes not only to students' acacence, students represent a captive audi-Therefore, promoting a healthy lifestyle and educational opportunities. Furtherhealth.6 During childhood and adolesand violence -- are rooted in childhood. A quality school health program health problems -- nutrition, exercise,

#### Components of a Coordinated School Health Program

To help students achieve their optimum offerings, they have what is called a "coordiplanned, sequential, school-afiliated stratenated school health program." In its report portive environment. When schools have opportunities in a safe, healthy, and sup-School Health: An Investment in the Fuhealth, schools need to offer a variety of such a program as: "an integrated set of gies, activities, and services designed to ture,6 the Institute of Medicine defines health-related services and educational mechanisms for coordinating all such

supportive of families and is determined by the local community based on community multidisciplinary team and accountable to promote the optimal physical, emotional, needs, resources, standards, and requirethe community for program quality and social, and educational development of students. The program involves and is ments. It is coordinated by a effectiveness."

these components developed the following the community. Working groups of profesvices; counseling, psychological, and social commonly accepted model, those compothe involvement of families and others in A coordinated school health program consists of multiple components. In one physical education; school nutrition serservices; health promotion for staff; and ment; health services; health education; nents include: a healthy school environsionals with responsibilities in each of

#### nealth knowledge, attitudes, and skills; and addresses the physical, mental, emotional and social dimensions of health; develops Education: Classroom instruction that Comprehensive School Health

is tailored to each age level. Such educa-

tion motivates and assists students in

preventing disease, and reducing health-

maintaining and improving their health,

problems, facilitate positive learning and nealthy behavior, and enhance students' on cognitive, emotional, behavioral and social needs of individuals, groups, and healthy development.7

related risk behaviors.7

quential instruction that promotes lifelong ohysical activity. Such education develops their mental, social, and emotional abiliskills, and physical fitness and enhances students' basic movement skills, sports Physical Education: Planned, se-

and prevent health problems and injuries, School Health Services: Preventive promote the health of students, identify referral, and management of acute and chronic health conditions. Such servies services, education, emergency care, and ensure care for students.7

maximize each child's education and health environment that promotes healthy eating ion of nutritious, affordable, and appeal-School Nutrition Services: Integrabehaviors for all children. Such services ing meals; nutrition education; and an potential for a lifetime.7

, ,

#### families. Such services prevent and address and Social Services: Activities that focus School Counseling, Psychological,

#### ERIC

Healthy School Environment: The

physical, emotional, and social climate of the school. Such an environment provides a safe physical plant, as well as a healthy and supportive environment that fosters learning.<sup>7</sup>

# School-site Health Promotion for

**Staff:** Assessment, education, and fitness activities for school faculty and staff. Such activities maintain and improve the health and well-being of school staff, who serve as role models for students.<sup>7</sup>

Family and Community Involvement in Schools: Partnerships among schools, families, community groups, and individuals. Such partnerships share and maximize resources and expertise in addressing the healthy development of children, youth, and their families.<sup>7</sup>

#### Support for School Health Programs

Organizations and government agencies at the local, state, and national levels can provide support for a quality school health program. Such support includes a framework for policies, financial and human resources, organizational structures, and communication channels, all of which can help programs become established and grow.<sup>8</sup> The objectives of such support include:

securing high level commitment to

the program;

- assessing needs and capacity;
- defining outcome expectations;
- developing policies and regulations that assure quality programming
  - identifying best practices;
- aligning programming with other health promotion efforts; and
- disseminating program information to policy makers and the public.

At the state level, such support assures effective program coordination and utilization of resources and provides technical assistance to schools. Coordination and collaboration among the staff in the state offices that support distinct components of the coordinated school health program, as well as collaboration among these state offices and other public and private agencies promoting the health and well being of children facilitates quality programming, according to the Institute of Medicine. Effective support involves communication among local, state and federal agencies that is collegial, supportive, and part of a resultsbased accountability system (Figure 1.1).

#### School Health Policies and Programs Study (SHPPS)

To determine the status of school health programs nationwide the Centers for Disease Control and Prevention (CDC) conducted the School Health Policies and

Programs Study (SHPPS) in 1994.9 CDC collected data at the state, district, school, and classroom levels for five components of the school health program (health education, physical education, health services, food service, and policies related to a healthy school environment).

SHPPS asked the following questions:

- What is the current status of five of the components of the school health program at the state, district, school, and classroom levels nationwide?
- Who is responsible for delivering each component of the school health program? What collaboration occurs among the components?
  - What is the relationship between state and district policies and school programs and services?
- What facilitates and prevents the delivery of quality school health programs? This report focuses on the data collected on support for school health programs at the state level.

Questionnaire: Development of the 17 questionnaires that comprised the School Health Program and Policies Study (SHPPS) began in September 1992. The questionnaires were designed to measure success in meeting school-specific items among the 14 national health objectives in Healthy People 2000<sup>10</sup> and goal seven (Figure 1.2) of the National Education Goals<sup>11</sup> (Figure 1.3).

# School Health In America

Figure 1.2
Relevant National Health Objectives<sup>10</sup> to the School Health Policies and Programs Study, 1994

- 1.8 Increase to at least 50% the proportion of children and adolescents in grades 1-12 who participate in daily school physical education.
- 1.9 Increase to at least 50% the proportion of school physical education class time that students spend being physically active, preferably engaged in lifetime physical activities.
- **2.17** Increase to at least 90% the proportion of school lunch and breakfast services and child care food services with menus that are consistent with the nutrition principles in the Dietary Guidelines for Americans.
- **2.19** Increase to at least 75% the proportion of the nation's schools that provide nutrition education from preschool through 12th grade, preferably as part of quality school health education.
- 3.10 Establish tobacco-free environments and include tobacco use prevention in the curricula of all elementary, middle, and secondary schools, preferably as part of quality school health education.
- 4.13 Provide to children in all school districts and private schools primary and secondary school educational programs on alcohol and other drugs (AOD), preferably as part of quality school health education.
- 5.8 Increase to at least 85% the proportion of people ages 10-18 who have discussed human sexuality, including values surrounding sexuality, with their parents and/or have received information through another parentally endorsed source, such as youth, school, or religious programs.

- 7.16 Increase to at least 50% the proportion of elementary and secondary schools that teach nonviolent conflict resolution skills, preferably as a part of quality school health education.
- 8.4 Increase to at least 75% the proportion of the nation's elementary and secondary schools that provide planned and sequential K-12 quality school health education.
- **9.18** Provide academic instruction on injury prevention and control, preferably as part of quality school health education, in at least 50% of public school systems (K-12).
- 13.12 Increase to at least 90% the proportion of all children entering school programs for the first time who have received an oral health screening, referral, and follow-up for necessary diagnostic, preventive, and treatment services.
- 18.10 Increase to at least 95% the proportion of schools that have age-appropriate HIV education curricula for students in grades 4-12, preferably as part of quality school health education.
- 19.12 Include instruction in sexually transmitted disease transmission prevention in the curricula of all middle and secondary schools, preferably as part of quality school health education.
- **20.11** Increase immunization levels as follows: Basic immunization series among children in licensed child care facilities and kindergarten through post-secondary education institutions: at least 95%.

An expert panel for each of the five components in the study provided advice about the contents of the questionnaires. The expert panel and an expanded group of nationally recognized reviewers including representatives of relevant national professional organizations, representatives of state and local education agentives of state and local education agentives, federal officials, university faculty and school-level administrative, teaching and health services staff refined the questionnaires.

Questionnaires underwent multiple rounds of pilot testing and revisions.
State-level questionnaires contained items on organizational structure, program requirements, relevant policies,

professional preparation, and collaboration and coordination with other components.

Data Collection: State-level data was collected by mail with telephone followup during March through June in 1994. Initially, data collectors called the superintendent of instruction's office to identify an individual who could serve as a contact for SHPPS. The contact person identified individuals in the state who should complete the questionnaire for each component. The state director of the respective components from all 50 states and the District of Columbia responded. States' responses are reported as a percentage of the 51 states, even when all

states did not respond to every question.

The only aspects of the school health environment that SHPPS assessed were the policies related to tobacco use, alcohol and other drug use, violence, and HIV infection. To provide some information on the physical environment, this publication also includes data from a General Accounting Office report on the physical condition of school facilities.

The SHPPS relied on self reported data, therefore, the analyses in this document reflect the knowledge and accuracy of the respondents. The SHPPS made no independent verification of the data provided. Using 51 as the denominator for reporting percentages given, when all respondents did not answer a question, has

National Education Goals

Figure 1.3

Goal 1: Ready to Learn By the year 2000, all children in America will start school ready to learn. Goal 2: School Completion By the year 2000 the

Goal 2: School Completion By the year 2000, the high school graduation rate will increase to at least 90 percent.

Goal 3: Student Achievement and Citizenship By the year 2000, American students will leave grades four, eight, and 12 having demonstrated competency over challenging subject matter including English, mathematics, science, foreign languages, civics and government, economics, arts, history, and geography; and every school in America will ensure that all students learn to use their minds well, so they may be prepared for responsible citizenship, further learning, and productive employment in our Nation's modern

Goal 5: Mathematics and Science By the year 2000, U.S. students will be first in the world in mathematics and science achievement.

Goal 6: Adult Literacy and Litelong Learning By the year 2000, every adult American will be literate and will possess the knowledge and skills necessary to compete in a global economy and exercise the rights and responsibilities of citizenship.

Goal 7: Safe, Disciplined, and Drug-Free Schools By the year 2000, every school will be free of drugs, violence, and the unauthorized presence of firearms and alcohol and will offer a disciplined environment conducive to learning.

Goal 8: Parental Participation By the year 2000, every school will promote partnerships that will increase parental involvement and participation in promoting the emotional and academic growth of children.

Introduction

resulted in underreporting the actual percentage of states that conduct some activity. The SHPPS collected data in 1994. Thus, this report does not reflect policy and program changes that have occurred since 1994.

# Organization of the Report

The chapters on health education, health services, physical education, and nutrition services each describe: a) the state organization; b) the coordination of the respective components at the state level with other agencies; c) programming; d) certification requirements for personnel at the district and school level; and e) response to four open-ended questions:

- What would you like to do that you have been unable to do in your state?
- What has prevented you from doing these things you just described?
  - What has been most helpful in improving your component of the coordinated school health program in your
- What suggestions or recommendations do you have to improve the component in your state?

The chapter on school health policies is structured differently because the SHPPS questionnaire for this component focused only on policy.

### General Findings

The five articles in this document

explore state support for five components of a school health program: health education, health services, physical education, nutrition services, and healthy school environment.

Many states have appointed state directors for each component. There is evidence of much collaboration between some of the respective components. The state directors of the respective components provide substantial staff development training and materials.

While there is room for improvement, many states have established a solid foundation for supporting many components of a school health program.

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### School Health in America

# Lealth Education

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Southern Illinois University at Edwardsville Coordinator, Health Education

Sherri T. Reynolds, B.S.N., M.S., CHES

Grants Coordinator

Health Education in the school

Sarasota County School Board, Florida

prevention agenda that will reduce the 50%of premature illness and death related to an unhealthy lifestyle.2 "Schools offer the most systematic and efficient means to improve politicians have focused on the need for a rofessionals from the fields of education, health, and social services, along with increasing numbers of parents and the health of youth and enable young

complex knowledge and skills they will need maintain their own health, the health of the families for which they will become responprograms help young people at each approsequential quality school health education people to avoid health risks. Planned and priate grade to develop the increasingly to avoid important health risks, and to -- Healthy People 2000

tives focused on specific instructional topics andergarten through 12th grade in 75% of sible, and the health of the communities in prevention. The ninth objective called for conflict resolution skills, injury prevention obacco-use prevention, alcohol and other quality school health education: nutrition, objectives for schools. Eight of the objecolanned, sequential health instruction in drug abuse prevention, human sexuality, which they will reside." Healthy People the nation's elementary and secondary 2000 identified nine health instruction hat students should receive as part of and control, and HIV and other STD schools.1

To achieve maximum success, quality school health education must function



health education that is planned

and sequential for students in

kindergarten through 12th

throughout life. Quality school

and maintain good health

plex knowledge and skills they

will need to avoid health risks

for helping children and youth develop the increasingly com-

setting is especially important

trained to teach the subject, has grade, and taught by educators

been shown to be effective in

preventing risk behaviors.1

within the framework of a broader coordinated school health program and include:

- a documented, planned, and sequential program of health instruction;
  - a curriculum that addresses and integrates education about a range of categorical health problems and issues;
- activities that help young people develop the skills they will need to avoid behaviors that result in unintentional and intentional injuries, alcohol and other drug

use, tobacco use, sexual behaviors that result in human immunodeficiency virus (HIV) infection and other sexually transmitted diseases (STD) and unintended pregnancies, imprudent dietary patterns, and inadequate physical activity,

- instruction provided for a prescribed amount of time at each grade level;
  - management and coordination in each school by an education professional trained to implement the program;

- instruction from teachers who have been trained to teach the subject;
- involvement of parents, health professionals, and other concerned community members; and
- periodic evaluation, updating, and improvement.

#### Methodology

This chapter reviews the status of health education at the state level as well as state

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Figure 1.1 State Mandate and Grade Level Requirements for Health Education	Legal Basis for Program	Required at the Elementary Level	Required at the Middle School Level	Required at the High School Level	
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Figure 1.1 State Mandate and Grade Level Requirements for Health Education	MON MON MON COCY SIGN ON	Eugli N	75.e.10 N	EDEP	VER N	of the state of th	Tostor Work	29.1	1/0/1		\ <b>%</b> \	1000 do 00 d	opolish 106	Olio de Solio	13	S. Catolina Carin.	6/8/	(***/	\ '\a.\	THOMIN S.	eilight Thomas	COSCULISENA SIGIO	S TO S IN WAS	LIS LO SA SINGLAS	Bujuo wa	E.	
Legal Basis for Program	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
Required at the Elementary Level	•	•	•	•	•	•	•	•	•	•	_	•	•	•	•	•	•	•	•	•	•	•	•	•			
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mandates for health education at the local level. The data comes from the School Health Policies and Programs Study (SHPPS) conducted by the Centers for Disease Control and Prevention (see "Introduction").

### State Organization

ion in a similar survey in  $1989.^3$  In the 1994includes legislative mandates as well as state SHPPS, 17 states (33%) reported that their resources, and consultation. Forty-six states Three fewer states mandated health educa-State-level support for health education provide health education (Figure 1.1). The (90%) require or recommend that schools than one legal basis for their requirement. egal basis for requiring health education education agency and health department 65%), state education policy in 28 states 55%), state health department policy in our states (8%). Some states have more one state (2%), and other regulations in state requirements for health education regulations, guidance documents, other was state legislative action in 33 states were outcome-based, ie, the specified outcomes that students must achieve.

At the elementary school level, 45 states (88%) required that schools offer health education. Although 34 states (67%) did not specify how elementary schools must offer health education. Eighteen 18 states (35%) told schools to include health lessons as part of the elementary. Five states (10%) re-

quired health as a separate subject at the elementary level. One state (2%) required schools to offer health education in a course equally split with physical education.

At the middle/junior high school level, 42 states (82%) required that schools offer health education. Twenty-four states (47%) did not specify how middle/junior high schools must offer health education. Fourteen states (28%) required that middle/junior high schools offer health as a separate course. In eight states (16%), middle/junior high schools offer health as a split course with another subject (usually physical education), while six states (12%) taught it as part of other required courses.

Forty-three states (84%) required schools to offer health education at the senior high school level. In 28 of these states (55%), high schools must offer health as a separate course. Nine states (18%) required a course that provided health in a course equally split with physical education. Four states (8%) included required health lessons as part of other required subjects at the high school level. Nine states (18%) did not specify how high schools must offer required health education.

Having a state office responsible for health education initiatives is basic to building an infrastructure for health education programming statewide. In 1994, 50 states (98%) had a person responsible for directing or coordinating school health education, which is an increase of six states

since 1989.<sup>3</sup> The majority of state directors (49 states, 96%) were responsible for both elementary and secondary levels. Directors for health education in 48 states (94%) had other administrative responsibilities. These included administration.

- included administering:federally funded HIV education (32 states, 63%);
  - physical education (24 states, 47%);
- federally-funded Drug-Free Schools (DFS) (14 states, 28%);
- school health services (11 states,
- 2%);
- other curricula areas (seven states, 14%);
- federally-funded Nutrition Education and Training (five states, 10%);
- driver's education (four states, 8%);
   and
- other responsibilities (15 states, 29%).

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### State Coordination

Coordination at the state level can strengthen support state-level organizations and agencies provide for schools' health education. Administratively, state education agencies have located the health education coordination with:

- federally funded HIV education (44 states, 86%);
- physical education (35 states, 69%);
- federally-funded Drug-Free Schools (30 states, 59%);

• school health services (19 states,

37%);

• federally-funded Nutrition Education and Training (15 states, 29%);

• driver's education (14 states, 28%);

and

• other programs 18 (states, 35%).
According to Kolbe<sup>4</sup> at the Centers for Disease Control and Prevention, government agencies at the local, state, or national level need to work as partners for effective implementation of school health programs. In the two years prior to the SHHPPS, state

education agency staff participated in joint programs with staff from:

school health services in 37 states, (73%);

• school food service in 35 states, (68%);

physical education in 32 states,

Figure 1.2a Required Topics for Health Instruction by Grade Level	(Ella)	ENE ENE CEIN	195 X	enogis.	Sestient Strate	elitojies sesties	84400 814000 8144000	Honson of the state of the stat	Mog Selice	olens C	EDITOITY		liemely Elogo		/ W. Y	15. 1	ENO	SESUEX E	Ses,	Eueisino?	eleisien allien	148 1	2568	Selilin Diegilin Dieg	STISSIAN STI	6 8 18	loois sin	
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Conflict Resolution and Violence Prevention									•					•		•				•	•				I			
Consumer Health	•			•				•	Æ	•	•	•		•		•				•	•				I	•		
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Figure 1.2a Required Topics for Health Instruction by Grade Level	Alcohol and Other Drugs	Community Health	Conflict Resolution and Violence Prevention	Consumer Health	CPR	Death and Dying	

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(63%); and

• school counseling/psychology in 22 states, (43%).

In 40 states (78%) the health education statt conducted joint activities with community agencies and organizations such as the National Parent-Teacher Association, American Red Cross, American Cancer Society, Maternal and Child Health Coalition, public health agencies, justice department, the states' school board association, the Dairy Council, American Lung Association, American Heart Association, and several other non-profit organizations, state agencies, and professional organizations.

Coordination and collaboration occurred among the state health education staff and state level coalitions or associations promoting health education in 46 states (90%). In 36 states (71%), these coalitions were affiliated with national professional organizations including the American Association for Physical Education, Recreation and Dance; American School Health Association, American Association for the Health Education; American Cancer Society; and National School Health Education Coalition.

# Health Education Programs

Curricular frameworks: State education agencies can help schools enhance quality and effectiveness of health education by providing specific curricula, guidelines and frameworks, controlling class

sizes, and systematically evaluating schools' programs. In SHPPS, most states (47 states, 92%) reported providing health curricula, guidelines, or frameworks for at least one grade level.

Forty-two states (82%) provided such guidance at the elementary school level, and 43 states (84%) at the middle/junior high school and senior high school levels

Forty-four states (86%) included goals, objectives, and outcomes. In their written curricula, guidelines, or frameworks, 26 states (51%) included subject matter content, 24 (47%) provided resources, 24 (47%) included scope and sequence chart, 19 (37%) suggested learning activities, 9 (18%) provided lesson plans, 9 (18%) specified student assessment plans, and 9 (18%) suggested curriculum evaluation plans.

The goals, objectives, or outcomes that states included in their written curricula, guidelines, or frameworks addressed knowledge about health topics at the elementary level in 41 states (80%), at the middle/junior high school level in 42 states (82%), and at the senior high school level in 43 states (84%). Fewer states included goals, objectives, or outcomes that focused on positive attitudes toward health behaviors: 33 states (65%) at the elementary school level, 35 states (69%) at the middle/junior high school level. Even fewer states included goals, objectives, or outcomes that

specified participation in healthy behaviors: 31 states (61%) at the elementary school level, 34 (67%) at the middle/junior high school level, and 35 states (69%) at the the senior high school level. Thirty-five states (68%) included goals, objectives, or outcomes that addressed skills to practice health behaviors at the elementary school level, 37 states (73%) at the middle/junior high school level, and 39 states (76%) at the senior high school level.

Class size: Fourteen states (27%) set a maximum number of students that schools may schedule into a required health education class. The maximum class size ranged from 25 to 150 students and averaged 41 students in those states that set a limit.

# Compliance with curricular frame-

work: Seventeen states (36%) required that schools follow the states written curricula, guidelines, or frameworks for health education. Twenty-six states (55%) recommended that schools follow the state's curricula, guidelines, or frameworks for health education and four states (9%) neither required nor recommended compliance. In order to monitor compliance with curricula guidelines or frameworks, 31 states (61%) employed one or more of the following:

- periodic on-site monitoring by the state department (20 states, 39%);
  - district submissions of periodic compliance reports (12 states, 24%);

Evaluation of health education school submissions of periodic

states, 14%)

The evaluations reported in SHPPS as-

- the status of health education poli-
- the quality of written goals, objec-•

tives, and outcomes for health education in cies in 12 states (24%); sessed: program: During the two years prior to the SHPPS, 26 states (51%) conducted formal district or school level. In 1989, 17 states (33%) had conducted such evaluations.<sup>3</sup> evaluations of health education at the compliance reports (eight states, 16%); and other monitoring strategies (seven

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Figure 1.2b Required Topics for Health Instruction by Grade Level	SE 19 8N	elej 99N	Z	elitediter wen	Yez W	SILISOIL NON	ta \ % \	40 1	YOU A	ejoyed A	. 16	/ & /	Oolid Lobato	150.18	(i) [8 <sup>(2)</sup>	Oyed S	\$0, \$0, \text{\$0, \t	139	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	18	RIGIS ALOUE	9, 4	CU 4	EIUIOJ SIA	VISUO SAN VO. SIN VO.	Sujuo (M	
Dental and Oral Health			•	•									•	•	ш		<b>"</b>	ЕН	ш				•				<b>j</b> 1
Dletary Behaviors/Nutrition			•	•		•	•	H		•			•	•	•		• E	ЕН	-	•	•		•	•			} 1
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8 states (16%);

- the implementation of health education curricula, guidelines, or frameworks in 13 states (26%);
- the quality of staff development offerings for health education in 14 states (28%); and
  - the qualifications of health education teachers in 11 states (22%).

knowledge, attitudes, and behaviors. In the SHPPS, 35 states (69%) specified some development. The School Health Education per year, but only three mandated 50 hours. states (16%) specified specific time requirehealth influences student learning and skill ments. All eight mandated over 30 hours bined physical education with health and time guidelines for health instruction. At Evaluation<sup>5</sup> revealed that 50 hours of in-In two of those states the mandate com-Instructional time: The amount of struction were needed to change health the elementary school level, only eight included no specific guidelines on the instructional time devoted to teaching division of the hours.

At the middle/junior high school level, 20 states (39%) mandated specific time requirements. Excluding those whose mandate combined health education with physical education, 12 of these states (67%) required the equivalent of a semester of health education schools could often pro-

vide the course at either the seventh or eighth grades, or through a combination of both grades.

At the senior high school level, 32 states (63%) had specific time requirements for health education. Nineteen states (37%) required a semester at some grade during grades 9-12. Four states (8%) required two semesters during the high school years. Most states did not require a health class beyond the ninth or 10th grade. No states followed the professional guidelines calling for a separate course at every grade at the high school level.78

Commercial curricula: Because many schools use commercially available health education curricula, 15 state education agencies (29%) provide guidance to schools in such curricula by approving or recommending specific curriculum for local use. The recommended or approved health curriculum:

- Teenage Health Teaching Modules (12 states, 24%);
- Know Your Body (12 states, 24%);
- Reducing the Risk (11 states, 22%);
  - Growing Healthy (10 states, 20%);
    Here's Looking at You 2000 (seven
    - states, 14%); and

      The Great Body Shop (six states,
- Approval or recommendation does not necessarily imply utilization, and often does

preclude selection of other commercial curricula.

state-required academic testing: To improve schools' accountability for student performance, states are "working to devise systems of rewards and punishments for schools that will be linked to the accomplishment of specified outcomes."

School improvement efforts including outcome-based education have often resulted in states expanding their assessment activities.

In the SHPPS, 41 states (80%) required academic student testing. Thirty-eight states (75%) tested at the elementary school level, 36 states (71%) at the middle/junior high school, and 37 states (73%) at the senior high school level. Only 10 states (20%), required testing, however, included health education topics in their states. Of those six states (12%) included health topics at the elementary school level, eight states (16%) at the middle/junior high school level, and seven states (14%) at the senior high school level.

Curriculum requirements. Several national documents have suggested that content constitutes comprehensive health education. Ten content areas included personal health, family health, community health, environmental health, growth and development, mental and emotional health,

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vention of substance abuse 10-12 The Centers serious illness and premature deaths in the for Disease Control and Prevention identidisease prevention, and control, and pre-.njury prevention and safety, nutrition, fied six behaviors responsible for most

pregnancies. <sup>13</sup> In 1995, the Joint Committee United States -- tobacco use, poor eating habits, abuse of alcohol and other drugs, unintentional injuries, physical inactivity, infection or other STDs, or unintended and sexual behaviors that result in HIV behaviors that result in intentional or

on National Health Education Standards14 published national health education standards. The Standards state that students will:

health promotion and disease prevention; comprehend concepts related to

Figure 1.2c Required Topics for Health Instruction by Grade Level	The state of the s	EUR GRID	Car.	EU ONI DE	Sesties Substitutes	Se Hiles	&\\3\	(%/J)	3.	Inspanie	1,6%	Eloto 80	lenely eloje	11/20	(4.)	/ 2/	EUP	18	Sesuex e	\$30,00x	The M	OLEKO MA	PURK	15.68 M	Selilin Specificity Specificity	Sys Solidin	\$ 18. W	dols sis in
Growth and Development	•			<u> </u>	<u> </u>	<u> </u>	<del>                                     </del>	<u> </u>	•	•		+		<u> </u>		I					1	•			ш	Ι	•	
HIV Prevention	•		•	•				•	¥	<del></del> i	MH	МН	•	•	НМ	•	•	•		I	•	•				Н	•	
Human Sexuality	ΨE			•	_			•	•		•	•	•	_			-	Ξ			•	•					•	
Injury Prevention and Safety	МН			•			_	•	•		•	•			•	I	•			I	•	•				Ξ	•	
Personal Health	МН			•	_			•	•		•	•	•		•	· <b>I</b>	•		•	Ī	•	•			ш	I	•	
Physical Activity and Fitness	¥							•		•	•	•	•	_	•	E	•			I	•	•	_			Ξ	•	

Figure 1.2c Required Topics for Health Instruction by Grade Level	M	EDEN ON ELIGION	See 18	eyse ion	1811	elits diff we	SIIIS CION WON	to was	Sullote S. A.	ejoged A	8,40	1 8 6	10690	Solid 106	Outers BOUND	Out of Sol	edilores	Setor :	\ 7e. \	10	140017	6 4	Cil 4		Sillo SAA	Suluo (AN	\
Growth and Development			•	¥		•	•	E						. •	•		•	EH	•	•	•		•				
HIV Prevention			•	•	•	•	•	MH	•			•	•	•	¥	•	•	I	•	•		•	-	•			
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Personal Health			•	EM		•	•	•					•	•	•		•		•	•			•				1
Physical Activity and Fitness			•	•	.•	•	•	•		•			•	•	•		•		•	•		•	•				
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personal communication skills to enhance health; valid health information and health-promotdemonstrate the ability to access

 demonstrate the ability to use goalsetting and decision-making skills to enhance health; and

demonstrate the ability to practice

ing products and services;

health-enhancing behaviors and reduce

health risks;

for personal, family, and community health. demonstrate the ability to advocate

quire specific health topics (Figure 1.2a-d). revealed that many states specifically re-At the state level, the SHPPS data demonstrate the ability to use inter-

media, technology, and other factors on

health;

analyze the influence of culture,

tion (15 states, 21%).

of 1994 only 37 states (73%) mandated such 95% of schools to have age-appropriate HIV curricula. According to the SHPPS data, as Healthy Children 20009 identified over 170 national health and disease prevention health education. Objective 18.10 calls for objectives related to child and adolescent health. Eight of those specifically address instruction. Objective 19.12 called for

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Figure 1.2d Required Topics for Health Instruction	1/2	SIENA ENGELA ENGELA	eyse.	se sue sus	8 1 1/6 )	%\'S\	element of the state of the sta	Month of the state		& POLICIA CONTROLLA	ilement		191		ELLE	sesue y	See .	Ele C4	. \4	Pile	15.14	System System	(%) (#)	ools sign	14/
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Figure 1.2d Required Topics for Health Instruction	SE SE NON EN SE SON ON	EUESA	EXSE TON	ED NON	Chief Wen	TOBJOT MON	; \ '\a_\	<b>をごん</b>	ELIJO N	& \ '\ <u>`</u> \	i ety	40000	Lein's	10 80 18 18 10 8 10 8 10 8 10 8 10 8 10	Puels :	Edilor S	set of it.	/ 10. //	1,67	140115	6.3	100 4	LISTOS AN BOUNTS OF STREET	Editio da	O.
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Tobacco Use Prevention	-	┨	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	-	4					1			۳	Eleme	ntary:	M - Mic	Idle: H	High.	E - Elementary; M - Middle; H - High; • - All 3 levels	levels

School Health in America

transmitted diseases as part of the curricula sexuality with parents and/or through youth school or religious programs. Twenty-three tion. Objective 4.13 states that all children states (45%) have mandated such instrucstates that tobacco-use prevention should should receive instruction on alcohol and other drugs. Thirty-six states (71%) man-Objective 5.8 states that 85% of students instruction in the prevention of sexually of all middle and secondary schools; 28 states (55%) mandated this instruction. dated such instruction. Objective 3.10 ages 10-18 will have discussed human

dated such instruction. Objective 7.16 states that 50% of all schools should teach nonviotary, middle, and secondary schools. Thirty-(29%) mandated this instruction. Objective include instruction about injury prevention ent conflict resolution skills. Fifteen states three states (65%) mandated such instrucion. Objective 2.19 states that 75% of the 9.18 calls for at least 50% of all schools to be a part of the curriculum in all elemen-Twenty-eight states (55%) required such nation's schools should provide nutrition education. Thirty-one states (61%) manand control as part of health education.

specific topics could, however, contribute to 2000 objectives are schools or students, not the state level. Failure of states to mandate instruction. The target of all of these year preclude inclusion of these topics at the achieving the health objectives for the school level. States' requirements for instruction on specific topics does not nation.

school health education, fully implemented, involves both school and community mem-Advisory councils: Comprehensive bers.4 One way to involve community

Unossim esos dillim NEGINO! SI OS PILIS ESSEN • Pueltien outen eueismon Worming ! sesuex • • eno, • evelou • • SIOUIII • OHER • lienely • • 6/01089 • EDITOLI 3.0 e Jeneje O thoposulos ODRIGIOS • enjoyies sesuexib. ellority. exself. emedely Available State Certification for Health Education for Middle School Level for Elementary Level Separate Certificate for Secondary Level Separate Certificate Separate Certificate by Grade Level Figure 1.3

Figure 1.3 Available State Certification for Health Education by Grade Level	TON TON HON MON ENGLION CHELLOW	euszu A	456,00	EDE TO A	Citien News	TOSION NON	TOT WON TO NOW T	Sted A A A A A A	edilors states	esoste o	8130	406340	1110/5/5/50100 100 100 100 100 100 100 100 100 10	(3) (V)	Piles S	40/69/	( \*\*\*\	7.67	1/8/	elulous Juous	GO IN W	\$10381A 10381A 10381A		48,00	Sullo sur	, ι
Separate Certificate for Elementary Level			•	<del>                                     </del>									•	•			-	•			•	•				1
Separate Certificate for Middle School Level		•	•			•			•		•		•		•	_	•	•	_		•	-				1
Separate Certificate for Secondary Level		•	•		•	•			•		•		•				-			•	•	-		$\dashv$		t
						}										7	- Elei	nentar	E - Elementary; M - Middle; H - High;	Middle	H	High,	A	- All 3 levels	els.	



members is through a health council. State states (65%) provided training and materisupport can encourage schools to institute als for establishing district or school-wide effectively. SHPPS data revealed that 33 such coucils and can help them function health advisory councils. Thirty states offered materials, and 24 states (47%)provided inservice training.

#### Personnel

be certified, health education teachers in 36 criteria for certification in health education. certification by state certifying agencies. To tency exam, and 10 states (20%) had other states (59%) must have at least a baccalauequired that teachers pass a state compeschool health education. 15 A direct way to strengthen teacher credentials is through Inadequate teacher training is an obreate degree in health education or a reeducation credits. Thirteen states (26%)stacle to the implementation of quality ated major plus a specified number of

States offered two major types of certifieducation certifications. In addition, many health at specific grade levels (Figure 1.3) states offer separate certification to teach cation -- a separate health education cernine states (96%) offered separate health tificate and a combined health education and physical education certificate. Fortyeducation certification, 26 (51%) states offered combined health and physical

teachers, and 35 states (69%) required it for Three states (6%) required separate health who teach health education at the secondeducation certification for all elementary

Only seven states (14%) required that these to retain certification or endorsement range six hours (35%). Some states allowed teachfor teacher recertification. Though requiregrowing expectation.16 CEU requirements years. The most frequent requirement was ers up to five years to obtain the six CEUs. ments vary by state, college coursework or some equivalent continuing education is a CEUs be related directly to health educastates (53%) require continuing education from two to 180 hours every one to seven To enhance teacher performance, 27 tion.

ing can enhance the effectiveness of lack of SHPPS, 50 states offered inservice training signed to teach health education and other certification requirements, inservice trainfield.17 During the two years prior to the teachers who need to stay current in the In addition to helping teachers meet professional preparation of teachers asand materials (Figure 1.4)

The top 10 topics on which states offered training were:

- HIV prevention (50 states, 98%);
- alcohol and other drug use prevention (49 states, 96%);

- sexually transmitted disease (43 states, 84%);
- tobacco use prevention (42 states, 82%);
- conflict resolution (41 states, 80%);
  - human sexuality (40 states, 78%);
- disease prevention and control (39 states, 77%);
- dietary behavior and nutrition (38 states, 75%):
  - physical activity and fitness (35 states, 69%); and •

pregnancy prevention (35 states,

69%).

the number of teachers trained ranged from Less than 25 states required community growth and development, injury prevention health, consumer health, CPR, death and and control, personal health, and suicide prevention. During that two-year period, dying, oral health, emotional and mental health, environmental health, first aid, 300 to 1,842 per state.

inservice programming offered by the state materials. The materials offered generally In addition to inservice training, state education agencies offer health teaching addressed the same health topics as the education agency (Figure 1.4)

# Improving School Health Education

pertaining to responders' ability to move included several open-ended questions The SHPPS state-level instrument

### nealth education forward in their states, The following reflects their responses.

# What would you like to do in health education in your state that you have not been able to do?

- improve teacher credentials at both preservice and inservice level.
- implement or expand comprehensive school health education.
  - expand assessment activities for health at the state level.
- improve advocacy and networking at the state level to promote school health.

# What has prevented you from accomplishing the above?

- poor support at the state and federal level including: inadequate regulations or requirements, poor structuring within agencies, and categorical funding.
  - lack of funding/resources.
- having other priorities, responsibilities, time commitments.
- actions of extremist/opposition groups.

# What has been most helpful to you in improving health education in your state?

- national/federal support in the form of dollars and training: i.e., CDC, drug-free schools, ACS initiative to promote health education.
- state improvement efforts, school improvement efforts, school improvement initiatives, curricula guidelines and training, mandates.
  - collaborative efforts: intra- and interagency, and with school personnel.
    support of professional organiza-

tions.

# Figure 1.4 Health Education Inservice Training and Materials Offered by State Education Agencies from 1992 - 1994

	Ę	Training	Mat	Materials	
Topic		(%)	c	(%) u	
HIV Prevention	20	(88%)	20	(%86)	
Alcohol and other Drug Use Prevention	49	(%86)	20	(%86)	
Sexually Transmitted Disease (STD) Prevention	43	(84%)	44	(%98)	
Tobacco Use Prevention	42	(82%)	45	(88%)	
Conflict Resolution / Violence Prevention	4	(80%)	36	(71%)	
Human Sexuality	40	(48%)	40	(78%)	
Disease Prevention and Control	39	(%22)	40	(78%)	
Dietary Behaviors and Nutrition	38	(75%)	36	(71%)	
Physical Activity and Fitness	35		36	(71%)	
Pregnancy Prevention	35	(%69)	38	(42%)	



What suggestions or recommendations do you have to improve health education in your state?

- more support at higher levels of state and national government for CSHE.
  - improved teacher training.
- better coordination within state education agencies, including the areas of HIV, drug free schools, and health educa-

#### Summary

According to respondents in the School state level, as of 1994, 46 states required or Health Policies and Programs Study at the education. The most frequently mandated school levels. Almost three-fourths of the states separately require a separate health prevention, and violence prevention. Few education course at elementary or middle states specified time guidelines for health topics in the health curriculum were HIV instruction suggested by federal agencies prevention, injury prevention, pregnancy minimal time guidelines for meaningful recommended that schools offer health prevention, alcohol and other drug use instruction, but less than five met the and professional associations.

Most states coordinated health education activities with some other components of a coordinated school health program. Most also had written curricula, guidelines,

or frameworks for health education. Between 1992 and 1994, 10 states conducted statewide evaluations of some aspects of their health education programming. Most states offered certification, most at the secondary level. Over half the states provided materials or training to assist districts in establishing or strengthening school health advisory councils. The most frequent health education inservice training topics that state education agencies provided were HIV prevention, alcohol and other drug use prevention, conflict resolution/violence prevention, human sexuality, and STD prevention.

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### School Health In America

# ealth Services Schoo

### Elizabeth Gregory

Austin (Tex.) Independent Schools Director, School Health Services



all learners receive nutrition

health care, and general

physical and emotional

place in isolation. Societies

Learning does not take

therefore must ensure that

ment of acute and chronic health conditions injuries and ensure care for students' health education and health counseling, chool health services encompass identify and prevent health problems, and emergency care, and referral and manageof students and school employees.2,3 Such immunizations and screenings, services promote the health of students, preventive services such as needs.3

financial constraints. The continuum of care ranges from basic screenings and first aid to The extent of school health services that available in the community, traditions, and guidelines, local district options, services comprehensive primary health care proany local school offers depends on state vided on site.

national organizations representing health A working group of representatives of mended that at a minimum every school service providers and education recomshould provide:

screenings, diagnostics, treatment, and health counseling services

<u>;</u>

- referrals and linkages to other community providers; and
- health promotion and injury and disease prevention education.4

Registered nurses usually provide these services, sometimes with assistance from health aides.

Many schools provide expanded services cies. Depending on community resources directly or contracted from outside agenthat include additional services provided and needs of students, expanded

to participate actively in and

benefit from their environment.<sup>1</sup>

support they need in order

services might include mental health counstudents with special needs, dental care, or assistance programs, health services for seling, student assistance or employee athletic training for sports teams.

and social services, including primary health need to provide care to students who lacked providing "one-stop shopping" for all health students.<sup>5</sup> In some places, the school-based primary health care to a full-service agency Establishing primary health care clinics medical insurance or ready access to medischool-based or school-linked clinics. They provide preventive and primary care, mencal care. Health departments, hospitals, or other medical care facilities operate these clinic has evolved from having a focus on tal health services, health education, and in or near public schools grew out of a social support services for underserved care, mental health counseling, social services, and vocational counseling.6

#### Methodology

cies and programs for multiple components School Health Policies and Programs Study the first study to assess school health poli-Disease Control and Prevention. This was State mandates for health services are of the school health program at the state, (SHPPS) conducted by the Centers for reviewed in this chapter. The review is based on data collected as part of the district, and local level

This review focuses only on data collected on the state program for health services.

requirements, relevant policies, professional items on organizational structure, program preparation, and collaboration and coordibegan in September 1992. An expert panel the state director of school health services was assembled in January 1993 to provide Development of the questionnaire for naires. The state questionnaire contained reviewers refined the proposed questioneedback about the contents of the quespanded group of nationally recognized tionnaire. The expert panel and an exnation with other components.

tion and asked to identify an individual who contacted by telephone prior to data colleccould serve as contact for the SHPPS. The heir state who should complete the survey contact person identified the individual in superintendent of instruction's office was ported as a percentage of the 51 potential State-level data collection was accomplished by mail with telephone follow-up spond to each question. For purposes of of the health services component. All 50 considered a state. Percentages of states reporting, the District of Columbia was sponded. However, all states did not reparticipating in various activities are reduring March through June 1994. The states and the District of Columbia restates that could report.

### State Organization

through legislative mandates or educational legislation or an educational code requiring codes. According to data collected through the School Health Policies and Programs survey<sup>8</sup> reported that 33 states had either had state educational codes or legislation Study (SHPPS)<sup>7</sup> in 1994, 27 states (53%) States support school health services services (Figure 2.1). In 1989, a similar that required schools to offer nursing health services in public schools.

Currently, 37 states (76%) have a person who has responsibility for nursing services at the state level. The agency employing this state coordinator was:

- state department of education in 20 state department of health in 14 states (39%);
  - states (28%); and
- both the state department of health and education in three states (6%).

In 30 states (59%), the only responsibilities of the state director of school nursing services was for school health services. In directors's responsibilities included: the other 21 states (41%), the state

- comprehensive school health (5 states, 12%);
- primary care programs including EPSDT (6 states, 12%);
- health education (5 states, 10%);
  - federally funded HIV education programs (4 states, 7%);

• federally funded Drug Free Schools Programs (2 states, 4%);

pregnant/parenting programs (2

states, 4%); and

• physical education (1 state, 2%). Twenty-nine states provide funding for

clinics. A 1993 survey<sup>9</sup> by the Robert Wood

at least one school-based or school-linked

Johnson Foundation found 22 states had guidelines for school-based clinics and another nine states had guidelines in development.

### State Coordination

Since several agencies in most states had an interest in the health of school-aged

children, collaboration between state agencies can strengthen a state's support for school nursing and other health services.

In 39 states (76%) the lead state agency for coordinating school health services, most often the department of education, worked with other state agencies to administer school nursing services. These collabo-

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Figure 2.1 State Requirements Regulating Health Services	_	Require Compliance with OSHA Blood-Borne Pathogen Standards	Provide Funding for School-Based/ School-Linked Clinics	Some Action to Increase Reporting of Suspected Child Abuse		
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Figure 2.1 State Requirements Regulating Health S	Legal Requirement for School	Require Compliance with OSHA Blood-Borne Pathogen Standard	ည်တို့	Some Action to Increase R of Suspected Child Abuse		
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School Health Services

rating agencies were:

department of health (28 states, 55%);
department of education (4 states,

8%);
• department of labor (2 states, 4%);

department of human services (2 states, 4%);
department of social services (2

states, 4%);
• department of medical assistance (1 state, 2%); and

department of mental health/mental

retardation (1 state, 2%);

In 42 states (82%) the lead agency for coordinating school nursing services participated during the two years prior to the SHHPS in joint state state-level activities or projects with state-level responsible for:

health education (35 states, 69%);
public health/human resources (30 states, 60%);

community agencies (28 states,

55%);school food service (22 states, 43%);school counseling/psychology (18

states, 35%);
• other state agencies (17 states, - 33%); and

• physical education (12 states, 24%). In 28 states (55%) during the two prior years, the state coordinator of school nurs-

years, the state coordinator of school nursing services also collaborated on joint projects with non-governmental community agencies, such as the American Cancer Society, American Lung Association, American School Health Association, Epilepsy Foundation, Mental Health Association, state nurses' associations, organizations

Figure 2.2.	Professional Development For School	Health Staff in the Two Years Prior to the
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	o f	Number (Percentage) of States Offering Training	Number ( of States Materials	Number (Percentage) of States Offering Materials
Торіс	_	(%) u	(%) L	
HIV Dravention	42	(82%)	40 (78%)	~
Thiversal Precautions	38		42 (82%	~
Alcohol and other Dring Use Prevention	37			
Tobacco Hea Dravantion	32		27 (53%)	<u> </u>
Violence Prevention	32		26 (51%	<u> </u>
Managing students with chronic conditions				
(e.g. asthma diabetes)	29	(21%)	_	÷
Managing HIV Infected Students	29	(27%)	28 (55%)	<u>.</u>
Managing The micros cooks	25	(48%)	19 (37%)	<u>(</u> 9
Description (Family Planning	23	(45%)	22 (43%)	(9
Managing Technology Supported Students	19	_	22 (43%)	(9
Dominations of the Nurse Practice Act	19	_	18 (35%)	(9
	17	_	11 (22%)	(9)
יין: אין:	16		17 (33%)	(9)

Survey

funded for children, dental and medical association, and family centers. They participated in state-level coalitions that addressed various issues such as rural health, early child care, homelessness, and safe and drug-free schools.

Seventeen state directors (33%) reported that other agencies, corporations or foundations, helped provide conferences, served on task forces, or helped develop curriculum or policy. These agencies included health departments; AIDS advisory committees; comprehensive school health coalitions; child abuse prevention agencies; division of specialized care; task forces on school-based/school-linked clinics; environmental safety and health committees; and social services departments.

Forty-eight states (94%) had state-level coalitions or associations for school nursing personnel. Of those, 73% (37 states are state school school nurse association and 22% (11 states) are state school health groups. In 44 states (86%), this coalition or association is affiliated with one or more national professional associations:

- National Association of School Nurses (36 states, 71%);
- American School Health Association (7 states, 14%);
  - American Nurses' Association (6 states, 12%); and
- National Education Association (3

#### Programming

### Staff Development for School Health Services Staff

Providing staff development trainings is one way state agencies help schools and health care providers strengthen school health services at the local level. In the two years prior to the SHPPS, 47 states (92%) offered staff development programs to local school health services staff (Figure 2.2). Fifteen states (30%) reported the number of people who attended programs. The range was from 60 to 2,769 participants for all of a state's programs during the two years. All the states but one offered more than one program during the two years. The most popular programs were:

- HIV prevention training (42 states, 82%);
- universal precautions training (38 states, 74%);
- alcohol and other drug use prevention training (37 states, 72%);
  - violence prevention training (32 states, 63%); and
- tobacco use prevention training (32 states, 63%).

Other staff development topics included school nursing practice and management issues, orientation for new staff, medications, computer usage, TB control, physical assessment, school-based clinic operations, and comprehensive school health agendas.

As another professional development tool, 45 states (88%) offered educational materials for school health services staffs. The subjects most commonly offered by states during the two years prior to the survey were:

- materials on universal precautions (42 states, 82%);
  - materials on HIV prevention (40 states, 82%); and
- materials on alcohol and other drug use prevention (31 states, 61%).

Disease Prevention: Forty-eight states implies that health care providers and other ines for hand washing and use of gloves to tions. Universal precautions involve guidecommunicable diseases. Thirty-two states edge or lack of knowledge of whether the (63%) require schools to comply with the prevent the spread of diseases. The term other strategies that states use to provide fluids of anyone regardless of any knowl-Pathogens Standards (Figure 2.1). Most oractices, often called universal precauwhen handling the blood or other body (94%) provide schools or districts some guidelines on controlling the spread of such guidance involve infection control school staff take appropriate measures person has a communicable disease. <sup>10</sup> Administration's (OSHA) Bloodborne Occupational Safety and Health

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School Health In America

spread of disease in schools included:

- distributing guidelines on following universal precautions to district or school staff (44 states, 86%);
  - providing a copy of guidelines on universal precautions to each district or

school (37 states, 73%);

- district or school staff (35 states, 69%); and providing periodic in-service training on following universal precautions to
  - distributing supplies necessary for following universal precautions to each district or school (5 states, 10%); and

sary for following universal precautions to distributing lists of supplies neceseach district or school (5 states, 10%);

compliance with these guidelines for follow-Twenty-four states (47%) monitored ing universal precautions by:

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HIV Policies		EN STATE OF THE PARTY OF THE PA	3	.\	× 1		<u> </u>								100	2	2	?			1/2			1	1		
Required Policy for Students	•	•		•		•	•	•	•	•	•			•									•		•		
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State Legislation	<u> </u>	<b>  •</b>	<u> </u>	•		•	•	•	•		•			•									•				
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Figure 2.3 Requirements Regulating HIV Policies	STANDA STORY	\$ \$ 6 10°	epen.	& \ \ 0.	8 / S	+0.7%	*0 1	enio enio	\$\%\	840	406840	106,0	St of St	Puels solid	enjojes Outos	( ) (3)	\ 76.\	16	Particular Services	e sen	(4)6/15/14 e/16/16/15/14 e/16/15/14 e/16/15		Suluo KA	\
Required Policy for Students				<b>}</b>	+	-	1	<u> </u>	<u> </u>	•	•		•	•	•	•	•	•	•		•	•		1
Required Policy for School Staff		•		•	-		•	•		•	•			•	•	•	•	•			•	•		ļ
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State Education Agency Policy		•		•			•	_			•		•		•	•					•	•		
State Health Department Policy		•		•		-	•	_			•		•	•	-		<del></del>			·		•		
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**School Health Services** 



- performing periodic on-site monitoring (12 states, 24%);
- having state OSHA offices monitor compliance (6 states, 12%);
- requiring districts to submit periodic compliance reports (3 states, 6%);
  - requiring schools to submit periodic compliance reports (1 state, 2%); and
    - asking a question in the annual superintendents report about following universal precautions (1 state, 2%).

## HIV Infection Policies

Since it was first identified in 1981, the human immunodeficiency virus (HIV) has garnered national attention and debate. Significant progress has been made in understanding the etiology and pathology of the disease, but a cure remains illusive. Prevention education remains the most powerful tool in the national campaign to limit the spread of HIV.

Nearly 1.5 million people in the United States already may be infected, often without signs or indications of disease.<sup>11</sup> These behaviors that place people at risk (sexual behaviors and sharing needles) are a particular worry among the young. According to the 1993 Youth Risk Behavior Survey,<sup>12</sup> 80% of African-American high school students, 56% of Hispanice students, and 48% of white students have had sexual

intercourse. Of sexually active high school students, 19% have had four or more partners. Only 53% of currently sexually active high school students used a condom at last sexual intercourse. Although only 1% of high school students reported injecting drugs, 48% reported using alcohol in the last 30 days, a behavior that contributes to poor decision making. Healthy People 2000<sup>11</sup> identified several objectives related to HIV prevention among youth and schoolbased personnel:

- reduce the proportion of adolescents who have engaged in sexual intercourse to no more than 15% by age 15 and no more than 40% by age 17 (Baseline: 27% of girls and 33% of boys by age 15; 50% of girls and 66% of boys by age 17; reported in 1988).
  - increase to at least 50% the proportion of sexually active, unmarried people who used a condom at last sexual intercourse (Baseline: 19% of sexually active, unmarried women aged 15 through 44 reported that their partners used a condom at last sexual intercourse in 1988).
- increase to at least 95% the proportion of schools that have age-appropriate HIV education curricula for students in grades four through 12, preferably as part of quality school health education (Baseline: 66% of school districts required HIV education and 5% of school districts required HIV education in each year for grades

seven through 12 in 1989).

Healthy People 2000<sup>11</sup> has one objective related to reducing the risk for transmission of HIV in the workplace by focusing on preventing exposure to blood.

Specifically, the objective reads: "Extend to all facilities where workers are at risk for occupational transmission of HIV, regulations to protect workers from exposure to bloodborne infection including HIV infection" (Baseline: unavailable).

implement, and evaluate educational efforts AIDS education as the first step in develophospitals, schools have recognized the need for educational personnel, programs taught precautions when handling blood and body development of school district policies on with AIDS. The document requested the for universal precautions to prevent expodents or school staff. The use of universal health programs to prevent the spread of to prevent unnecessary deaths associated guidelines also call for staff development sure to blood or other body fluids by sturansfer of causative microorganisms. In signed to assist school personnel to plan, he human immunodeficiency virus that which this objective is based focused on causes AIDS. The guidelines 13 were de-1988, CDC issued guidelines for school ing an AIDS prevention program. The Although the OSHA regulations on fluids of anyone minimizes the risk of

by qualified teachers, comprehensive instruction addressing the broad range of behaviors exhibited by young people, sufficient time and resources to assure that policies and programs are well implemented, and program assessment.

Thirty states (59%) indicated they required schools to have a policy about HIV infection. Twenty-nine states (57%) indicated the policy covered students and 27 states (53%) reported the policy covered school staff. Policy statements were based

- federal legislation as the legal basis for policies in 10 states (20%);
- state legislation as the legal basis in 23 states (45%);
  - state education agency policy in 18 states (35%); and
- state health agency policy in 15 states (30%).

Additional recommendations included:

- support for HIV prevention education for students in 41 states (80%);
- support for HIV prevention education for staff in 40 states (78%);
- procedures for evaluating the health status of HIV-infected students and school staff in 31 states (61%);
- procedures for maintaining confidentiality in 46 states (90%);
- procedures to protect HIV-infected students and staff from discrimination in 40 states (78%).

- a statement about the inapporpriateness of routine testing of students and school staff for HIV infection in 17 states (33%);
- procedures for communicating the policy to students, school staff, and parents/ guardians in 31 states (61%); and
  - procedures for implementing the policy in 30 states (59%).

# State-level Support for School-Based or School-Linked Clinics

School-based and school-linked clinics are primary care facilities located at or near schools that provide some combination of medical care and mental health screening and treatment for young people. The clinics are intended to overcome barriers that adolescents perceive in the traditional health care setting, such as concern about lack of confidentiality, lack of transportation, cost, and inconvenient appointment times.<sup>14</sup>

School-based clinics are located on the school grounds, while school-linked clinics are located near a school campus and predominantly serve a school-aged population. While services vary, these clinics use a multidisciplinary approach to service delivery that includes a combination of physi-

cians, nurse practitioners or physicians assistants, nurses, clinical social workers, mental health professionals, counselors, support staff, and other health care professionals, such as dentists and dietitians.<sup>14</sup>

By late 1992, 415 school-based and 95 school-linked clinics operated in 42 states and the District of Columbia. Sixty percent were in urban areas and 31% in rural areas. <sup>14</sup> In fall 1994 a Robert Wood Johnson survey reported 607 school-based clinics in 41 states and the District of Columbia. <sup>9</sup> Twenty-eight percent served an elementary school population, 16% a secondary population, and 10% a combination. <sup>9</sup> In the School Health Policies and

Programs Study reported here, many states support both school-based (SBC) and school-linked (SLC) programs. Twenty-seven states (53%) provide some funding for SBC and 23 states (45%) provide some for SLC. All together 29 states (59%) provided funding for some school-based or school-linked clinics (Figure 2.1). The Robert Wood Johnson survey reported that state revenues represent one of the largest sources of money used by school-based clinics to finance operations. According to the RWJ survey, the amount of state funding increased 140% in two years, from \$9.2 million in 1992 to \$22.3 million in 1994.

**School Health Services** 

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Figure 2.4 Recommendations for HIV Policies	OH)	EUEJION	eyse igen	e W	THE TON	(% / %)	+ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	OyeQ A A	einoged A	6\%\	ety o	406840	106.4	10 10	eloyed s	8/16/	13	1.67	1101118	Partie de la compartición de la	CORPUSE WAY	SIOS SIM NO SECULOS		Enjuo AA
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Prevention Education for Staff	•	•	•		•	•		•	•			•		•	-	•	•		•	•		•	•	
Procedures for Evaluating Health Status		•	•					•	,		•			•	•	-	_	•	_	•		•	•	
Procedures for Maintaining Confidentiality	•	•	•		•	•		•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	
Procedures to Protect From Discrimination	•	•	•		•	•	_	•	•			•	•	•		•	•	•	•	•	•	•	•	
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Figure 2.4 Recommendations for HIV Policies	Prevention Education for Students	Prevention Education for Staff	Procedures for Evaluating Health Status	Procedures for Maintaining Confidentiality	Procedures to Protect From Discrimination	Statement on Routine Testing	Procedures for Communication	Procedures for Implementation	
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#### Health Records

Most states, 48 (94%) required districts or schools to maintain health records on each student. The required records in-

- immunization (46 states, 90%);
- physical examination reports from a physician or other health care provider (22 states, 43%):
- screening (19 states, 37%);
- medical emergency forms (17 states,
- medical information forms from parents/guardians (13 states, 25%);
- tuberculosis skin test results (13
- states, 25%);
   directions on medication administra-
  - directions on medication admin  $\omega$  tion (11 states, 22%);
    - referrals (four states, 8%);
- first aid (three states, 6%);
- health records for each student (two states, 4%);
  - physical impairment, if one is suspected (one state, 2%); and
- records of a health assessment (one tate, 2%).

Thirty-nine states (76%) had written policies concerning students' health records. Policies included requirements for:

- protection of confidentiality of health information (31 states, 61%);
- transfer of health records when

students transfer schools (30 states, 59%);
• disposition of school health records

- disposition of school health record upon graduation or other termination of school experience (24 states, 47%); and
- communication of the Nurse Practice Act to school health services staff (9 states, 18%).

#### Screening

To identify those students with health problems that might impair a students ability and learn and that could go undetected or become obvious only at a later time when treatment is more costly and less effective, <sup>15</sup> many states require periodic screenings of students for specific problems (Figure 2.5).

The most common screening processes required of local school districts are:

Hearing: Puretone audiometric screening is recommended in early fall before respiratory diseases begin. More states require a hearing screening than any other type of screening (Figure 2.5).

- 31 states (60%) required hearing screening at some time during a student's school experience.
  - 30 states (59%) required hearing screening in kindergarten.
- 21 states (41%) required hearing screening at first and third grades.

Vision: The AAP<sup>16</sup> recommends annual vision screening for students K-12. Figure 2.5 lists states requiring vision screening.

- 30 states (59%) required vision screening sometime during a student's school experience.
  - 22 states (43%) required vision screening at first and second grade.
- 21 states (41%) required vision screening at third grade.

Scoliosis. Screening helps identify students with early curvature that could benefit from bracing, and thus prevent surgery. Some lateral curvature of the spine occurs in 1%-5% of the adolescent population Figure 2.5 identifies states requiring screening

- scoliosis screening.
  26 states (51%) required scoliosis screening at some time during the students' experience K-12.
  - 14 states (27%) required scoliosis screening in sixth grade.
    - 17 states (33%) required scoliosis screening in seventh grade.
- 16 states (31%) required scoliosis screening in eighth grade.

Other screenings required at sometime for K-12 students by some states include height and weight in 13 states (25%), in dental health problems in 10 states (20%), and in blood pressure in eight states (16%).

Since 1987, the number of screenings required nationwide decreased by two states for hearing and vision, but increased for scoliosis screening by 16 states, for dental screening by two states and for height and weight screening by one state.<sup>8</sup>

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Figure 2.5 State Requirements Regulating Health Screenings	YE IN	eus ein	19.14	elo to	Sessients Sessients Silvans Sessients	Elitologi Sesus	<i>જે</i> હ્યું જે \	343 86		170	\ \ \ \ \ \	Ilement Story	/ <i>&amp;</i> /	Soulli Soulli	Engl Sicilor		Sesue y	ELIERA SOMILOS SES	EL EL	EM	Pueltiem	1456 14	Syles Collins	%\\% <u>\</u> \	ladis sim	(4)
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School Health Services

Screening students for correctable health problems has no benefits if students do not receive referral, treatment, and follow-up for problems found during screening.

Most states require notifying parents or guardians of problems detected during routine screening, providing them with assistance in obtaining needed health services and reporting numbers of students screened (Figure 2.6). The number of

states requiring each type of screening, follow-up activities varies by problem screened for as well as by state.

periodic compliance reports submit-

ted by schools (15 states, 29%).

ted by disctricts (16 states, 31%); and

Of the states that require taking some action for detected problems, only 39 states (77%) monitor school districts' compliance with the requirements. Those that do monitor use one or more of the following:

- periodic on-site monitoring (14 states, 28%);
- periodic compliance reports submit-

Figure 2.6
State Requirements
for Follow-up After Screening
Procedures (Number and Percentage of States That Require Schools/Districts)

	Take Action n (%)	Notify Parent n (%)	Assist to Get Service n (%)	Report Numbers n (%)
Hearing	37 (73%)	34 (66%)	19 (37%)	23 (45%)
Vision	36 (71%)	33 (65%)	19 (37%)	23 (45%)
Scoliosis	34 (66%)	34 (66%)	22 (43%)	22 (43%)
Ht.Wt.	15 (29%)	13 (25%)	7 (14%)	7 (14%)
B/P	16 (31%)	16 (31%)	8 (16%)	8 (16%)
Dental	19 (37%)	17 (33%)	11 (22%)	7 (14%)
TB	15 (29%)	13 (25%)	9 (18%)	11 (22%)
Hematocrit	1 (2%)	1 (2%)	1 (2%)	0
Lead levels	1 (2%)	1 (2%)	1 (2%)	0
Dev. Assess.	1 (2%)	1 (2%)	1 (2%)	0
Health Assess.	1 (2%)	1 (2%)	1 (2%)	0
Physical Exam	2 (4%)	2 (4%)	1 (2%)	0

## Immunizations for Entry into School

Routine immunizations required for school entry include polio, diphtheria, pertussis (whooping cough), and tetanus (DPT), and measles, mumps, and rubella (german measles) (MMR); and, in some states, hemophilus influenza (Hib-B), and hepatitis B (HBV).

State laws provide exemptions of students with religious or medical conflicts.

## Diphtheria, Tetanus, and Pertussis

AAP and CDC recommend five doses of diphtheria, tetanus, and pertussis by the age of six.16 The SHPPS in 1994 found that 11 states (22%) required five doses for entry into school, 23 states (45%) require four doses, and 15 states (29%) require three doses. Two states did not respond to the question. Ten states (20%) required five doses of pertussis, 22 states (43%) required four doses, 14 states (27%) required three doses, and one state (2%) required one dose of pertussis.

### Measles, Mumps, and Rubella

The CDC and AAP recommend two doses of the combined measles, mumps, and rubella (german measles) vaccine, with the first dose given between 12 and 18 months of age. The second dose is routinely recommended at 4-6 years of age, or at 11-12 years of age. While most states (76%)

required a second dose of measles vaccine, the age when it is required varies. Many place an emphasis on immunization at school entry. Twenty-four states (47%) required a student to have a second dose of measles prior to entering kindergarten. However, 22 states (43%) did not require the second dose until grade six or seven.

## (Hib-B) Hemophilus Influenza B

Hemophilus influenza B is the immunization that prevents meningitis. The SHPPS found that six states (12%) required at least one dose by first grade. By the 1996-1997 study, all states required such immunization.

#### (HBV) Hepatitis B

AAP and CDC recommend three doses of Hepatitis B vaccine by age 2, with administration by 11-12 for those not already immunized. At the time of the 1994 SHPPS, 17 states had laws or rules regarding Hepatitis B vaccination, and eight states had laws and rules pending.<sup>16</sup>

#### Polio

AAP and CDC recommend four doses of a polio vaccine (either IPV, OPV, or a combination) by age six.<sup>16</sup> Every state required at least two doses for school entry.<sup>15</sup>

The SHPPS found that 25 states (50%) will not allow a student to enroll without necessary immunizations. Another 18 states (39%) allow students to enroll but limited the number of days they may attend without immunization records. These limitations ranged from 10 to 120 days, with the mean being 51 days and the mode 90 days.

#### **Medication Policy**

Medication policy often includes parent permission or authorization, a health care professional's order to dispense, a medication log, a safe storage area, a medication error reporting system,<sup>17</sup> and documentation of training of any unlicensed personnel allowed to dispense medications.

Thirty-one states (61%) required some documentation before school personnel may give medicaitons to students. Required documentation included written instructions about the medication (eg, dosage) from the physician or other authorized prescriber (27 states, 53%), and written request from parents/guardians to administer the medication (26 states, 51%).

Fourteen states had other policies regarding giving medication to students at school; two other states permitted RNs to dispense medication. One state allowed other school personnel to dispense medications after having 16 hours of training and if an RN was not available. One state required school nurses to develop medication plans.

specified what medications students may Sixteen states' medication policies carry during the school day.

to carry any medicine for which they had an authorized prescriber's permission; and two states allowed students to carry any medicamedicine for which they had written parental permission; four states allowed students Six states (12%) permitted students to allowed them to carry epinephrine, three tion included in that student's individualstates (6%) allowed students to carry any carry and use inhalers, two states (4%)ized medication plans.

### Reporting Child Abuse

Child abuse includes physical, verbal, sexual, and emotional abuse as well as

increase the likelihood that school staff will pected cases of child abuse. 18 Forty-eight esponsibilities for children to report susrecognize and report suspected cases of states (94%) have taken some action to neglect and abandonment. Every state physical and sexual abuse. The actions include required school personnel to: requires individuals with professional

- reports to the district or state (31 states, submit all suspected child abuse
- distribute guidelines for recognizing and reporting abuse to district school staff (32 states, 62%);
  - provide periodic inservice training on recognizing and reporting abuse to

district or school staff (30 states, 59%); and

a copy of the guidelines for recognizing and require each district or school keep reporting abuse (11 states, 22%)

### Student-to-Nurse Ratio

for the general school population; 1:250 for the mainstreamed, special education popu-Nurses Association<sup>20</sup> recommend, ie, 1:750 population. Only six states (12%) have any requirements for nurse-to-student ratios and 19 states (37%) have recommended student ratios that the American School Health Association<sup>19</sup> and the American lation; and 1:125 for the special needs Few states required the nurse-tonurse-to-student ratios (Figure 2.7).

a Nurse-to-Student Ratio\* States That Mandate Figure 2.7

Ratio	1 nurse per 40 teacher units 1:1000 1:1200 1:1500 1:1500
Population	Regular Education Regular Education Regular Education Regular Education Regular Education Regular Education
State	Delaware* Minnesota New Mexico Nevada Pennsylvania West Virginia

• One state (2%) requires a nurse-to-school ratio and another state requires one nurse per school for vocational education and special populations while having a different regulation for regular education.

School Health Services

#### ERIC Full Text Provided by ERIC

### School Nurse Certification

To meet the needs for a unified, nationally accepted standard of practice for school nursing, five professional associations published the Standards for School Nursing Practice in 1983.<sup>21</sup> The American Nurses Association consolidated nursing practice in a 1991 publication, Standards of Clinical Nursing Practice.<sup>20</sup> The National Association of School Nurses prepared and published School Nursing Practice: Roles and Standards<sup>22</sup> in 1993 in order to incorporate the new ANA Standards with school nursing practice. This 1993 document incorporates the original Standards for School Nursing Practice and two additional standards important for the preparation of school nurses:<sup>22</sup>

- 1. Clinical knowledge: School nurse utilizes a distinct knowledge base for decision-making in nursing practice.
- 2. Nursing process: School nurse uses a systematic approach to problem-solving in nursing practice.
- 3. Clients with special needs: School nurse contributes to the education of the client with special health needs by assessing the client, planning and providing appropriate nursing care, and evaluating the identified outcomes of care.
- 4. Communication: School nurse uses effective written, verbal, and non-verbal communication skills.
- 5. Program management: School nurse

establishes and maintains a comprehensive school health services program.

- 6. Collaboration within the school system: School nurse collaborates with other school professionals, parents, and caregivers to meet the health, developmental, and educational needs of clients.
- 7. Collaboration with community health system: School nurse collaborates with members of the community in the delivery of health and social services, and utilizes knowledge of community health systems and resources to function as a school-community liaison.
  - 8. Health education: School nurse assists students, families, and the school community to achieve optimal levels of wellness through appropriately designed and delivered health education.
- 9. Research: School nurse contributes to nursing and school health through innovations in practice and participation in research or research-related activities.
- 10. Professional development: School nurse identifies, delineates, and clarifies the nursing role, promotes quality of care, pursues continued professional enhancement, and demonstrates professional conduct.

Some states require special certification for school nurses beyond licensure as a registered nurse. State certification sometimes parallels teacher certification and

does not require additional nursing knowledge, while other state certification requirements call for additional training. Thirtyone states (61%) offered state certificates for school nurses, and 21 states (41%) required this certification for employment as a school nurse. The educational preparation required as part of certification as a school nurse varies by state:

- 25 states (50%) require a minimum of an RN with a baccalaureate degree;
  - 10 states (20%) require a minimum of an RN with a diploma from a nursing school:
- 1 state (2%) requires a minimum of a baccalaureate degree in nursing (BSN) for provisional certification and an MSN within 10 years for a professional certificate; and
  - 1 state (2%) require a minimum of an LPN/LVN license.

. . .

Four states (8%) require school nurses to be certified by the American Nurses Association or the National Association of School Nurses. Both ANA and NASN offer voluntary, periodic certification by examination

To retain certification, school nurses must submit continuing education units (CEUs) to the state in 18 states (35%). Seven states (14%) required these CEUs to be directly related to school health services issues. The number of hours of CEUs states require of school nurses to retain their

certification varies from five to 90 hours and the time permitted to earn the CEUs ranged from one to five years. The most frequent requirement for CEUs was 30 hours, the average requirement was 35 hours, and the median requirement was 40 hours. The number of years allowed to acquire these CEUs varied from one year (one state, 2%) to five years (six states, 12%). Five states, 10% allowed two years,

School Health Aides: Schools frequently employ health or clinic assistants to help the school nurse deliver specific health

and one state, 27% allowed three years.

services or perform clerical functions. In many cases, states employ health aides as the only person in the school clinic with no registered nurse present. Thirty-eight states (75%) allow schools to employ school health aides, but only three states (6%) required specific technical training for school health aides. Eighteen states (36%) require health aides to work under the supervision (training, evaluation, and monitoring) of a nurse or physician at all times.

## Improving School Health Services

The SHPPS survey asked respondents a

series of open-ended questions about ways to improve school health services. A summary of the responses of state-level coordinators who completed the questionnaire follows each question.

## What would you like to do that you have been unable to do in school health services in your state?

The most common responses included:
improve the ratio of school nurses to

- improve the ratio of school nurses at least one per school; and
- hire a state-level school nurse consultant to improve coordination for man-

Figure 2.8 State Requirements Regulating Certification	OPETOTO SIES ESTA ESTA ESTA GENTA	elile of	الحِيِّةِ الْمِيْرِينِ الْمِيْرِينِ الْمِيْرِينِ الْمِيْرِينِ الْمِيْرِينِ الْمِيْرِينِ الْمِيْرِينِ	eigh	Se SIIE	Saluos Riuoji	~/ .0. /	3. \ 3\	ediolisis di successivo di constanti di cons		Soull Soull	S. COL	elegoli soli	\ \@\\	Sesinoi Sesii	~~\`\\`\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	elesina Selesina	OUELA	SAUSE SUM	\$ 5 5 5 14 S 5 5 5 14 S 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	8/ 8/	ladissin	42
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Figure 2.8 State Requirements Regulating Certification	NON MON MON MON ON EXPLORN ON MON MON MON MON MON MON MON MON MON	eige ich	Sel 781	ED NOW	Clue Non	Tosto, Way	to 1	10.1	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<b>, \%</b> )	18/	1060 A	OURIS OF S	Pullates is	EUIOJES	( )	/ '@, \J	/3/	\$101811A	Citien	100 8 14 100 8 14 100 8 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16		Sujuo da	\ 1
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**School Health Services** 

School Health In America



dated school health services across the

programs; and improving training to include nurses' role in providing employee wellness nurses with certification; providing regional school-linked clinics, developing guidelines and research. Some mentioned a wish to and local inservice education; improving using computer skills for documentation Other responses with less frequency for delegation of nursing activities, and EPSDT, coordination of school-based/ included hiring BSN prepared school link school health services with school improvement efforts.

#### from doing these things? What has prevented you

expenses, and lack of administrative under-Lack of funding for staff and program standing/support.

Other barriers include lack of a coordiunderstanding among health departments, second state coordinator; lack of apprecianator at the state level and the need for a school districts, and state agencies; and tion of the role of school nurse; lack of opposition to school-based clinics.

### ing school health services in your state? What has been most helpful in improv-

- a strong collaboration with the state school nurses association;
- services that funded 36 school nurse posi- use of state tax money for health tions and 22 school-based clinics;
- private funding to hire five RNs this year and 15 more for next year;
- nursing service in every school for 20 hours the health department providing a week;
- preparation of a state school health services manual;
- collaboration with agencies and organizations to further school health services;
- state required certification of school nurses; and
  - EPSDT funding.

you have to improve school health services What suggestions or recommendations do in your state?

- obtain adequate funding for the health services program;
- services at the state level in each state; secure a coordinator of health
- have a health services supervisor in each district;
- increase administrative support for the value of school health services in a school's total program;

- nurses to lower the ratio between nurses increase the number of school and students;
- establish more school nurse practitioner programs in schools of nursing; and
- collaborate more with other agencies to improve school health services.

#### Summary

nursing services. In 42 states (82%) the lead (53%) reported that their states have a legal hearing screening by 31 states (60%); vision ionnaire, state employees with responsibilnursing services had joint state-level activihealthier students in the two years prior to the study. Forty-eight states (94%) require screening for dental health problems in 10 records on students. Thirty-six states man-Health Programs and Policies Study quesdate some type of screening for students: weight screening by 13 states (25%); and ties with other state agencies to promote screening by 30 states (59%); height and ty for school health services in 27 states In replying to the state-level School schools and districts to maintain health state agency for coordinators of school basis requiring schools to offer school states (20%).

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Thirty-one states (61%) have established cation in schools, 48 states have established policies governing the dispensing of medi-

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(61%) offer a certification for school nurses and 21 states (41%) require such certifica-

tion for employment as a school nurse.

infection control procedures that prevent

abuse and neglect and to increase the likelihood that school staff will follow the spread of disease. Thirty-one states

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School Health in America

### Healthful Schoo Environment

Marcia Rubin, Ph.D., M.P.H.

Director, Research and Sponsored Programs American School Health Association



chools represent unique ecosystems in which the physical and social environment interact. A

risk factors that might lead to future disease protects students and staff against immediand aesthetically pleasing environment that ment addresses both the social climate and ate injury or disease and promotes prevenenhances well-being and learning; or it can safety and hinders learning. The American school can be a healthy, comfortable, safe, tion activities and attitudes against known or disability." A healthful school environthe findings from two studies; the School be a place that is hazardous to health and the physical facility. This chapter reports nealthful school environment as one that (SHPPS)<sup>2</sup> sponsored by the Centers for Academy of Pediatrics<sup>1</sup> has defined a Health Policies and Program Study

Disease Control and Prevention (See "Introduction"), and the General Accounting Office's report "School Facilities: Conditions of America's Schools."

schools sampled responded. Although other (GAO) Report School Facilities: Conditions of America's Schools<sup>3</sup> provides information public schools were designed and equipped representative, stratified random sample of activities, the GAO report looked at schoolschool districts between January 1994 and March 1995. Seventy-eight percent of the evel data. It was the only data source that oublic elementary and secondary schools, and the extent to which America's 80,000 to meet the needs of students in the 21st on the physical condition of the nation's century. The GAO surveyed a nationally 10,000 schools and visited 10 selected data in this book examines state-level The General Accounting Office's

The layout, quality, and condition of the physical plant have an effect on those who study and work there. -- Alan Henderson<sup>14</sup>



**Health Policy** 

take place within the physical environment staffs' perceptions of the interactions that define the school's "climate."

The school facility represents the external, tangible environment. Students' and gave a picture of physical conditions in schools nationally.

Figure 3.1 State Requirements for School/District Policies Regarding Tobacco Use	YEN.	elilede in	9,14	eig ta	Se Sue XX	endolles seems	106/3	30.\\%\\	Malene S		(4) (8)	Sto St.	116 4		ELLE	1,50	(43), 70)	16.14	E4	Puelsen	436.4	See My Special	Solita	6 18 18	thoselm eseselm
Require Policy for Students		•			•		•	•	•	•	•	•				-	_		•	•	•	•		•	1
Require Policy for School Staff		•			•		•		•	•	•	•		 _		•			•	•	•	•		•	
State Health Department Policy																				-		-			
Recommended Focus of School District Policies	•		•		•	•	•	•		•	•	•	-		•	•		•	•	•	•	•		•	
Smokeless Tobacco	•		•	•	•	•	•	•	•	•	•	•		•	•			•	•	•		•		•	
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School Health Environment



students, faculty, and staff, as well as school by school policies. The social climate within consistent health messages delivered in the playing field. Examples include policies for students with disabling conditions, chronic trust, support, positive regard, high expecvisitors regarding the use of tobacco, alcoand its purposes.6 Particularly helpful are elements and is determined, in large part, that makes physical, social, and emotional school policies that support and reinforce school buildings creates an infrastructure tations, and identification with the school Such an environment is characterized by Climate encompasses social and physical health, as well as achievement, possible. policies on discipline, delinquency, and violence; or policies on the inclusion of classroom, in the cafeteria, and on the hol, or other drugs on school property; medical conditions, or HIV.

### **Tobacco Use Policies**

plus young people begin smoking each day.7 smoking before age 18.7 An estimated 3,000 their lifetime; 34.8% had smoked cigarettes The majority of daily smokers (82%) began one or more days during the past 30 days; dents had tried smoking sometime during Survey (YRBS)8 found that 71.3% of stupreventable death in the United States.4 The 1995 National Youth Risk Behavior 16.1% reported smoking regularly; and Tobacco use is the leading cause of

secondary education, or library services if 11.4% used smokeless tobacco during the Schools and Communities Act<sup>9</sup> in 1986 to prevention of tobacco, alcohol, and other 30 days preceding the survey.8 The U.S. drug use. The 1994 Pro-Children  $Act^{10}$ promote policies and programs for the the services were supported by federal prohibited smoking in indoor facilities providing kindergarten, elementary or Congress authorized the Drug-Free funds.

following tobacco-related objectives for Healthy People 2000 included the youth:

- more than 15% have become regular smoksmoking by children and youth so that no reduce the initiation of cigarette ers by age 20 (1987 Baseline: 30%);
  - reduce smokeless tobacco use by males ages 12-24 to a prevalence of no more than 4% (1987 Baseline: 6.6%).

national, federal and voluntary agencies, has the field of tobacco-use prevention from 29 Prevention, in collaboration with experts in for schools based on an in-depth review of theory and research of current practices in vention. The guidelines<sup>11</sup> recommend that the area of school-based tobacco-use prepublished tobacco prevention guidelines The Centers for Disease Control and all schools:

- develop and enforce a school policy on tobacco use;
  - provide instruction about the short-

social consequences of tobacco use, social regarding tobacco use and refusal skills; and long-term negative physiologic and influences on tobacco use, peer norms

- provide tobacco-use prevention education in grades K-12;
- provide program-specific training for teachers;
- port of school-based programs to prevent involve parents or families in suptobacco use;
- support cessation efforts among students and all school staff who use tobacco; and
- assess the tobacco-use prevention program at regular intervals.

dressed student use and also covered use by Program Study, 32 states (63%) indicated they had a state requirement that school policy. In 28 states (55%), the policy addistricts or schools have a tobacco use In the School Health Policies and school staff (Figure 3.1).

States policies were based on:

- federal legislation (nine states, 18%);
  - state legislation (25 states, 49%);
- state education agency requirements (eight states, 16%); and
  - state health department policy (two states, 4%).

Twelve states (24%) indicated the state their policies; 38 states (75%) specifically recommended that such policies include offered no guidelines as to what type of tobacco products should be included in

products; 35 states (69%) included smokeless tobacco products (snuff and chewing cigarettes and other smoking tobacco tobacco) as well.

 support for tobacco-use prevention reported additional recommended components of tobacco-use policies. These vari-All but seven states (44 states, 86%) ous policies included:

- education for students (36 states, 71%);
- definitions of tobacco products (21 states, 41%);
- rules against tobacco use by students

(39 states, 77%);

- rules against tobacco use by school staff (36 states, 71%);
- rules against tobacco use by school visitors (33 states, 65%)
  - descriptions of violations and possible consequences (27 states, 53%);
- and seizure and confidentiality (14 states, due process guidelines for search 28%);
- policy to students, school staff and parents/ procedures for communicating the guardians (28 states, 55%);

 procedures for implementing the policy (23 states, 45%); and

events and school vehicles) (44 states, 86%). building, school grounds, school-sponsored Areas of jurisdiction in which tobacco areas of jurisdiction (eg, school

common recommended policy. Some states school building during regular school hours detail for both students and staff by the 44 for both students and staff was the most states responding (Figures 3.2, 3.3, 3.4). was prohibited were specified in more Prohibition against tobacco use in the

Figure 3.2 State Recommendations for School / District	(P)	Eulede ly	6.73	enogija egesa	EUO SES UE SIN	Elito S	(જે, છે)	33.76		1,5%		lienely (16)		\ \ \ \	18/		160	See .	elegino?	elelela H	/ 'W /	Pussey	SOLILIA SPORTISTA PURILIA	Store of the State	el gelse	100 8 8 14 80 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	4.5
Prevention Education	•		•	•	•	•	•	•	•	•		•		•	•	•			•	•	•	•	•		•		
Definitions				•		•	•	•		•					-	•			•	•	•	•	•			$\perp$	
Rules Against Use By Students	•		•	•	•	•	•	•	•	•	<u> </u>	•		•	_	•			•	-	•	•	•		•		
Rules Against Use By Staff	•		•	•	•	•	•		•	•	•	•			<del>-</del> -	•			•	•	•	•	•	_	•		1
Rules Against Use By Visitors	•		•	•	•	•	•		•	•	-	•				•			•	•	-	•	•	$\dashv$	•		1
Descriptions of Violations			•		•	•	•		•		•	•			•		•	-	•	•	•	•			•		1
Due Process Guidelines			•			•	•	_	•			•				•	•			<u>•</u>	-	-					
Areas of Jurisdiction	•		•	•	•	•	•	•	•	•	•	•		-	•	•	-		•	•	•	•	•		•		1
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Procedures for Implementing Policy			•	$\square$	•	•	•			-	•	-	_	$\dashv$	$\dashv$				-	<b>-</b> ∤	•	•	_	_	•		1

School Health Environment

ERIC Full Text Provided by ERIG

also recommended regulating tobacco use on school grounds during regular and nonschool hours, during school-sponsored events off campus, in school vehicles or a specified distance from school grounds (Figures 3.3, 3.4)

#### Alcohol

## and Other Drug (AOD) Use Policies

Inappropriate use of alcohol is another major cause of premature death in the United States, responsible for 100,000 deaths annually. Alcohol-related deaths

reduce the normal life span an average 26 years. Evidence links alcohol to deaths by motor vehicles, falls, fires, drowning and cirrhosis of the liver. Alcohol use, like tobacco use, is often initiated during adolescence.

According to the 1995 Youth Risk Behavior Survey (YRBS)<sup>8</sup> data, 80.4% of high school students reported drinking alcohol at some time during their lifetime, 51.6% consumed alcohol during the past 30 days and 32.6% consumed five or more drinks of alcohol on at least one occasion

during the past 30 days.

Healthy People 20004 includes the following alcohol-related objectives for

- reduce the proportion of young people who have used alcohol in the past month from 25.2% to 12.6% (1988 Baseline: 25.2%).
- reduce the proportion of high school seniors engaging in recent occasions of heavy drinking of alcoholic beverages to no more than 28% (Baseline: 33% of high school seniors).

Figure 3.2 State Recommendations for School / District Tobacco Policy Content	OH)	Ellestich,	eyse Iden	(6) 7	TEX NO.	Stor Men Property Men		to Then	EUIIOIE V	eniloie	\$10.70 PM	ieją o	40600	106	18 8 V	Posted States St	ROJEO S	Set of it.	/ 49. /	18	Anoli Anoli	4 4	SIOSSIM SIOSSI	~ ~ ~ ~ ~ ~	Sullio (MA)	Oil	
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Definitions	•		•	•			•		•			•				•	_	$\neg \neg$			-	•	_			-	1
Rules Against Use By Students	•	•	•	•	•	•	•		•			•		•	•	•	•	•	•		•	-	-	_		_	1
Rules Against Use By Staff	•	•	•	•	•	•	•		•			•		•	•	•		•	•	-	•	-	-	_		_	ł
Rules Against Use By Visitors	•		•	•	•	•			•			•		•	•	•		•	•	-	•	•					.
Descriptions of Violations	•	•	•				•		•	•						•		•	•		•	-	-		-		ı
Due Process Guidelines		•	•						•										•					_		-	1
Areas of Jurisdiction	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	$\rightarrow$	+	1
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Presedures for Implementing Policy		•	•		•		•		•	-				•					•		$\overline{\bullet}$						1
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School Health in America

School Health Environment

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State Recommendations Figure 3.3

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Specific Distance From School Grounds

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School Buildings, Regular Hours	•	•	•	•	•	•	•		•	•	•	•	•	•	•	
School Buildings, Non-Regular Hours	•	•.	•	•	•	•	•		•	•	•	•	•	•	•	
School Grounds, Regular Hours	•	•	•	•		•			•	•	•	•	•	•	•	
School Grounds, Non-Regular Hours	•	•	•	•		•			•	•	•	•	•	•	•	
School-Sponsored Events Off Campus	•	•	•	•		•			•	•	•	•		•	•	

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School-Sponsored Events Off Campus

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State Recommendations Figure 3.4

School / District Policies Regulating Tobacco for Content of Use by Staff

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State Recommendations Figure 3.4

School / District Policies for Content of

Regulating Tobacco

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• • • School Buildings, Regular Hours Non-Regular Hours Non-Regular Hours School Buildings, School Grounds, School Grounds,

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Specific Distance From School Grounds

School Vehicles

Regular Hours

School Health Environment

• provide to children in all school districts and private schools primary and secondary school education programs on alcohol and other drugs, preferably as part of quality school health education (Baseline:

63% provided some instruction, 39% provided counseling, and 23% referred students for clinical assessments in 1987).

In addition, the Drug-Free Schools and In the Sc Communities Act of 1986° promotes the grams Study

development of policies and programs to reduce alcohol and other drug use, including tobacco.

In the School Health Policies and Programs Study (SHPPS), 5 states (10%) did

Figure 3.5 States Requiring School / District Policies Regulating Alcohol and Other Drug Use	(E)	EUR CEIN	Eque to	121	( % (	Englos Sealing	obstalos sinjos	O Selie	Hoggsonios	الزراء	\$0.00 p	ELG TO BO	1184	Cile O	\$041111   0411111	E NO SIO IN	(8)	Sinor Sesses	337165	EUE CH	E4	Puelsen	1/3/4	Solding Street Street	lodissin Bossin	7.5 J. 14	lodissim
Required Policy for Students	•	•	•	•	•	•	·	•		•	•	•		•	•	•	•	•	•	•	•	•	•	•		•	1
Required Policy for School Staff	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•		•	ļ
Legal Basis Federal	•	•	•	•	•	•	•	•		•	•	•		•	•	•	•	•		•	•	•	•	•		•	
State Legislation	•	•	•		•		•		•	•	•	•		•	.•		•		•	•				•			1
State Education Agency Policy			_		_			•	•	•		•					•		•	•	•	<del> </del>					
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Alcohol and Other Drug Use		*	V.e	<i>7.</i> —	2 -	2	2 <del>1</del> —	v -	i) _	/	-46	~ <del></del>					.V		. \	.\		<b>/</b>	<b>/</b>		<b>\</b> -		4
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alcohol and other drug use policy (Figure 3.5). The remaining 46 states (90%) required schools to have a policy related to students and 43 states (84%) required that policies include school staff. Forty-one states (80%) cited federal legislation as the legal basis for the requirement; 28 states (55%) cited state legislation; 15 states (29%) cited state health department policy. In addition to the requirements, states recommended that school districts adopt policies (Figure 3.6) that:

- support alcohol and other drug use prevention education for students (41 states, 80%);
- define alcohol and other drugs (35 states, 69%);
- prohibit alcohol and other drug use by students (44 states, 86%);
- prohibit alcohol and other drug use by school staff (41 states, 80%);
  prohibit alcohol and other drug use
  - by school visitors (34 states, 67%);

     describe violations and possible
- consequences (41 states, 80%);
  provide due process guidelines for search and seizure and confidentiality (32 states, 63%);
- define areas of jurisdiction (eg, school building, school grounds, school-sponsored events, and school vehicles) (38

- include procedures for communicating the policy to students, school staff, and parents/guardians (41 states, 70%); and
- specify procedures for implementing the policy (32 states, 63%).

## Violence Prevention Policies: Physical Fighting, Weapon Possession, and Use

fight on school property in the last year and of firearms exceed in number the combined caused by violent and unintentional misuse Americans ages 15 through 34, and suicide Violent and abusive behavior is increasphysical fight at least once during the past 34.9% had property stolen or deliberately people ages 15 through 24.4 According to the 1995 Youth Risk Behavior Survey,8 12 months, 20% carried a weapon at least school property, 15.5% were in a physical damaged on school property one or more (24.1%) reported suicide ideation, 17.7% is the third-leading cause of death among ingly a problem for students as well as for other Americans and exacts a large toll on total of the next 17 nations.<sup>5</sup> Homicide is reported developing a suicide plan, 8.7%nations in violent death rates. The deaths once during the past 30 days, 8.4% were times during the past 12 months. Many 38.7% of high school students were in a threatened or injured with a weapon on physical and mental health. The United reported attempting suicide, and 2.8% the leading cause of death for African-States ranks first among industrialized

reported a suicide attempt that required medical attention.

The 1993 Review of *Healthy People* 2000<sup>12</sup> revised several violence objectives based on new baseline data. The objectives call for:

- reducing by 20% the incidence of physical fighting among adolescents ages 14-17 (Revised Baseline: 137 incidents per 1,000 students per month in 1991).<sup>12</sup>
  - reducing by 20% the incidence of weapon carrying by adolescents ages 14-17 to no more than 86 incidents per 1,000 students per nonth (Revised Baseline: 107 incidents per 1,000 students per month in 1991).
- prevention and re-authorized it as the Safe violence and the unauthorized presence of firearms and alcohol, and will offer a disciresolution skills, preferably as part of qualplined environment conducive to learning. and Drug-Free Schools and Communities  $Act^5$  addressed violence prevention in goal Act. 13 The Goals 2000 - Educate America seven: "By the year 2000, every school in increasing to at least 50% the propolicies and programs to reduce violence unavailable). Further federal support for the United States will be free of drugs, schools that teach non-violent conflict Communities Act<sup>9</sup> to include violence amended the Drug-Free Schools and was provided in 1994 when Congress ity school health education (Baseline: portion of elementary and secondary

School Health in America

In the SHPPS, 20 states (39%) reported include

requiring school districts to have violence

prevention policies for students and 12 educa

states (24%) required extending that policy to school staff (Figure 3.7). One state (2%) provided no legal basis for these requirements, two states (4%) cited federal legislation as the legal basis, 16 states (31%) referred to state legislation, and eight states

included:

• support for violence

- support for violence prevention education for students (20 states, 39%);
- definitions of physical fighting (23 states, 28%);
  rules against fighting by students (20
  - states, 39%);
     descriptions of violations and possible consequences (21 states, 41%);
    - guidelines for confidentiality (19 states, 37%);

addressing physical fighting among students

(16%) cited state education agency policy.

Recommended components for policies

• areas of jurisdiction (eg, school building, school grounds, school-sponsored events and school vehicles) (18 states, 35%);

• procedures for communicating the policy to students, school staff, and parents/guardians (22 states, 43%); and

• procedures for implementing the policy (17 states, 33%).

Recommended policy components that address weapons included (Figures 3.8,

Figure 3.6 State Recommendations for Content of School /District Policies Regulating Alcohol and Other Drug Use		Elik dely	eyselv elle	1331		\$10103 \$\$\$1183	811103 811103	2 Taliford	Malende Sid		\$0.00 P. 10	ilenett elologo	1/2 0	16.1	167		18,1	See 3	\$1000 TO TO TO TO TO TO TO TO TO TO TO TO TO	enels in	/ <b>%</b> /	O. P. S. E.	Stospilos A	Sy os old in	100 88 14 810 88 144	ladissis w
Prevention Education	•		•	•	<u> </u>	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•		•	1
Definitions of AOD			•	•	•	•	•	•	•	•		•			•		•	•	•	•	•	•	•		•	ţ
Rules Against Use By Students	•		•	•	•	•	•	•	•	•	•	•		•	•	-	•	•	•	•	•	•	•		•	ľ
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Rules Against Use By Visitors			•	•	•	•	•		•	•	•	•		•	•	-	•	•	•		•		•			
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Due Process Guidelines			•		•	•	•	•	•		•	•		•	•		•		•	•	•	•	•		•	
Areas of Jurisdiction	•		•		•	•	•	•	•		•	•		•	•		•	•	•	•	•	•	•		•	

**Procedures for Communication** 

Procedures for Implementation

School Health Environment

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Procedures for Communication

Procedures for Implementation

- education for students (20 states, 39%); support for violence prevention
- definitions of weapons (23 states, 45%);
- rules against weapon possession and use by students (28 states, 55%)
- rules against weapon possession and use by school staff (25 states, 49%);
- rules against weapon possession and use by school visitors (26 states, 51%);
- description of violations and possible consequences (23 states, 45%);

Figure 3.6

- and seizure and confidentiality (22 states, due process guidelines for search
- events and school vehicles) (24 states, 47%); building, school grounds, school-sponsored areas of jurisdiction (eg, school
  - policy to students, school staff and parents/ procedures for communicating the guardians (22 states, 43%); and
    - procedures for implementing the policy (16 states, 31%).

### Dissemination of Model Policies

States use a variety of ways to help local schools. States provided model policies in model policies to guide school districts or 3.10). Forty-four states (86%) provided school districts develop policies (Figure the following areas:

- tobacco use (28 states, 55%);
- alcohol and other drug use (32 states, 63%);
- violence prevention (12 states, 24%);
  - HIV-infected school staff (33 states, 65%);

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\* )

HIV-infected students (35 states,

69%); and

• HIV education (31 states, 61%). States also provide in-service training to help school districts draft and implement health-related policies (Figure 3.11).

Forty-eight states and the District of Columbia offered training within the two years preceding this study. Training addressed policies related to:

- tobacco use (32 states, 63%);
- alcohol and other drug use (39

states, 77%);

- violence prevention (30 states, 59%);
  - HIV-infected school staff (35 states,

69%);
• HIV-infected students (39 states,

77%); and

Figure 3.7 State Requirements Regulating Violence Prevention: Physical Fighting	YEID	eye ely	196.13	ell of the	18th	endolle.	el 2003	13,53,810 00 00 00 00 00 00 00 00 00 00 00 00 0	32.10	413 Tene	( )	elo to es	Ilement Signature	1/4/47	16.1	\$ 104	ENO.	. <b>\</b> '&\	186 3		( 1 m	Qu'y	Pileton Silin	28 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Sies Cilia Sies Cilia Cies Cies Cilia Cies Cies Cies Cies Cies Cies Cies Cies	Store Chillian Store	lodissim sossim	100/88/14	401
Violence Prevention: Fighting Policy for Students				•				•	•	•						•		•		•		•	•		•				ı
Policy for School Staff				•				•	•					-	$\neg$			•		•					•			_	1
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State Education Agency Policy									•		•									•									
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Procedures for Communication

Procedures for Implementation

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State Recommendations for Content of School / District Policies Relating to Physical Fighting	Prevention Education	Definitions of Obveiral Eighting

• • • • • • • • Definitions of Physical Fighting Descriptions of Violations **Due Process Guidelines** Rules Against Fighting Areas of Jurisdiction

HIV education (45 states, 88%)

prior to the SHPPS. Estimates ranged from received such training during the two years Four states reported training 500 and four Nineteen states (37%) provided estimates of the number of individuals who a low of 200 to a high of 25,000 people. states 1,000 individuals.

materials related to health policy in the area States also provide or make available to school districts or school staff various of (Figure 3.12):

tobacco use (39 states, 76%);

alcohol and other drug use (42 states, 82%); HIV-infected school staff (40 states,

 HIV-infected students (41 states, 78%);

HIV education (49 states, 96%).

80%); and

## Improving School Health Policies

• violence prevention (32 states, 63%); open-ended questions about health policies in schools. Frequent responses follow each Policies Study asked state officials several The School Health Programs and question.

What would you like to do with school health policies in your state that you have not been able to do?

 clearly align all school health policies with the overarching theme of comprehensive school health.

Figure 3.9 State Recommendations for Content of School / District Policies Relating to	Eurgely	euge s	121	SESILE XIS	State State	811105 811105	ON THE OF	Monsolilos operos		\$0,10,1x	ILEM BLO TO SO	11, 4	19.1	181		(%)		ELESINOT TOOM	euele W	/ W /	SIS SUIS IN SISSEM	State State	\$ 50 80 HILLIAN	logis sissim	lodissim
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School Health Environment

- have a systematic approach for mandated staff development for the full range of coordinated school health programs.
- require all school districts to have policies.
- make sure everyone connected with schools know, follow, and enforce adopted policies.
  - develop strong legislative support for comprehensive health education.
- develop OSHA-like standards for public schools.

• produce a clear, well-organized desk reference manual of codes, laws, and policies that enables districts to find what they need.

## What has prevented you from doing the things you just described?

This question produced consistent responses: lack of time, lack of funding, lack of staff, and lack of administrative support. Several respondents also cited local control or local autonomy as an impediment. An-

other factor often cited was the fragmentation and turf issues of special interest programs.

## What has been most helpful to you in improving school health policies in your state?

Some states credited their state boards and superintendents as well as the Department of Public Health, others felt that having federal and state legislation was very helpful. Many felt federal dollars were the engine that drove what areas got addressed.

Figure 3.9 State Recommendations for Content of School / District Policies Relating to Weapons	enegrow enegrow	eus 1991	35. 8	80.70	Stor Non Culeit Non Poen	0. \ 7. \	t / 3 /	ないな	THO N	6/%/	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	18/	0000 1000 V	/ 8/-	Puloto's	EUIOJES PUIOJES	Soye Y	\$6.50 P	123	THO HAS	. હ જ	TO LIVE		6440 644 640 644 640 644	6	•
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School Health in America

the state and/or the National Association of State Boards of Education as well as technibuilding support. At least two states cited

agency cooperation and networking across departments. policies. Several states included inter-

cal assistance from CDC in helping write One state felt use of the Youth Risk Behavfindings, both in the professional literature ior Survey and the presentation of the and the popular press, were helpful in

Figure 3.10 States With Model Policies For:	Elle de la	euro euro	18/2	Seste Ala Elicata	1-6. 1	EILLO JOS	્રજા છે.	~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Hostene O	1 12	EDITOLE S	\$101.78A	1189			EUR	18	86 34 S	(\$3 <sub>1</sub> ,70)	ELE CH	14	Still Still	436.41	Sporte Billy	Anoso III Anoso III Anoso III III III Anoso III III III Anoso III III III Anoso III III III III III III III III III	S. S. J. A.	10018814
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HIV-infected Students

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Sexual Harassment

**HIV Education** 

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What suggestions or recommendations do you have to improve school health

increase funding.

policies in your state?

revise current policies.

encourage administrators to support disseminate policies to all schools.

comprehensive school health.

 develop strategies to keep these issues in the public eye.

Figure 3.11 States Providing Inservice Training Around Policies For:	(ell)	Euroeia Euroeia	13.74	PU TA	SESTIENTS ELOS	eiligoilles Sestie	1.48/0	3/2/	Monographical Contractions	1,195	180,083 180,083	lenely Sidis		\~.\	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	elle di	SESUE X	See.	ELEIS IN O.	elelele W	Diekiem Ou	STORT DIESEN	SI GEORGE SINGLES	STOS OUT TO STANK	O/S S/A	Iddiss IM	
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HIV Education	•	•	•	•	•	•	•	•	•	•	•	•	•	•	-	•		•	•	•		•	•		•	1	
Sexual Harassment					•	•	•	•		•		•		•	•					•			•				
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Sexual Harassment

**HIV Education** 

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HIV-infected Students	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		-	•	-	-		•	•	
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EUIUONA EUIGIA EUIGIA NOUSA • • • • • • • YEAR • sexal • Mot • • • • • ·erro • 9,46 Single N • • HO WEN WEN • • • • TORIOT MON • • • • • • • EDETON ENSEIGEN EILENION • • • • • • Policy-Related Materials Violence Prevention States Providing Figure 3.12 Tobacco Use AOD Use About:



- more monitoring to see if policies get implemented.
- provide more technical assistance to local districts.
- better coordination with U.S. Dept. of Education.
- more "culturally sensitive" materials
  - when disseminating policy.put "teeth" into policies-link to funding for programs.
- focus on grass roots support rather than top down initiatives.

### Physical Elements: The Facility

The World Health Organization<sup>15</sup> defined environmental health as the control of those factors in the physical environment that affect physical development, health, and survival.

Historically, the physical environment for the school has included elements such as the condition of the physical plant (appropriate illumination, ventilation, and heating), safety features such as diagrammed exit patterns in the event of an emergency; playground equipment and surfaces that conform to recommended standards; hygiene factors such as operating and filled soap dispensers in restrooms, sufficiently hot water to sanitize food preparation surfaces and equipment; and appropriate handling of waste materials. More recently, physical security was added to the physical elements of a healthy school envi-

According to the GAO report,<sup>3</sup> school officials reported that while most schools met many key facilities requirements and environmental conditions such as ventilation, heating, indoor air quality, and lighting, many did not meet the recommended standards.

Rates of unsatisfactory environmental conditions were higher in schools in western states or those where more than 40% of students were approved to receive free or reduced-price lunch or where more than 50% of students were minority students.

The General Accounting Office estimated the nation's schools needed approximately \$112 billion to repair or upgrade their facilities to good overall condition. To achieve a healthful physical school environment, improvements are needed in acoustics, ventilation, heating, indoor air quality, lighting, and physical security.

#### Acoustics

Unwanted sounds or noise can interfere with oral communication and children's ability to concentrate or study and, if excessive, cause hearing damage. In a learning environment, sound levels should be maintained between 40-60 decibels.<sup>16</sup> Approximately 28% of all schools reported unsatisfactory acoustics.<sup>3</sup>

### Ventilation and Heating

rom the heat. Thermal comfort depends on sfactory ventilation was reported by 27% of ead to serious health consequences. Unsatdents' ability to learn. Air conditioning is no temperature, and air movement. Temperaschool year. Site visits to southern cities, in critical for states that experience a number oarticular, found schools without air condihe respondents reported having air condilearn in hot weather. Fewer than one-half ime. Students with asthma often got sick numan performance and if extreme, may Some physical elements investigated tioning. Obviously, this problem is more longer considered a luxury for schools if ure and humidity factors contribute to they use computers or want students to tioning closed earlier in the hot fall and spring months, decreasing instructional and found inadequate are linked to stuthe schools in the GAO study and 19% of hot, humid days during the regular the simultaneous control of humidity, reported unsatisfactory heating.

#### Indoor Air Quality

Maintaining appropriate indoor air quality requires monitoring indoor air for biological and chemical agents. Building air is sometimes contaminated with asbestos; hazardous chemicals used in science laboratories, art studios, and industrial arts laboratories; microorganisms; and/or cleaning and

School Health in America

maintenance supplies. <sup>16</sup> Indoor air pollution, sometimes called "sick building syndrome," has been investigated by a branch of the National Institute of Occupational Safety and Health (NIOSH) since 1911. <sup>16</sup> In the GAO report, unsatisfactory indoor air was reported by 19% of the schools.<sup>3</sup>

#### Lighting

The quality of light pertains to distribution of luminescence and is not established by quantity of light. Factors such as glare and diffusion affect students' ability to see easily and accurately. Problems commonly observed in schools include glare, shadowing, and bright or dark areas caused by differences in intensity. <sup>16</sup> Unsatisfactory lighting was reported by 16% of the schools.<sup>3</sup>

### 9 Physical Security

With the rise of violence in schools and on school grounds receiving national attention, physical security has been added as a physical element of environmental health. Schools act *in loco parentts*, in the place of parents, and while children and youth are in schools, schools are responsible for the safety and well being of their students.¹ Elements such as cameras, metal detectors, locks and lighting can enhance physical security. Twenty-four percent of schools reported unsatisfactory physical security.³

#### Summary

social, and emotional health as well as make use by staff. Forty-six states (90%) required are school policies that consistently support reducing the spread of HIV while 20 states and reinforce health messages delivered in student use and 54% (28 states) addressed the classroom, in the cafeteria, and on the schools to have a policy addressing alcohol playing field. Data collected as part of the achievement possible. Particularly helpful The climate within the school creates quired schools to have a tobacco non-use policy. Of these states, 100% addressed required schools to have a policy about (39%) required schools to have a policy SHPPS, found that 32 states (63%) reand other drug use. Thirty states (59%) the setting that can promote physical, addressing violence prevention.

A General Accounting Office study<sup>3</sup> of the physical conditions in the nation's schools found numerous unsatisfactory environmental conditions. Unsatisfactory conditions were found for acoustics in 28% of schools, ventilation in 27% of schools, physical security in 24% of schools, heating in 19% of schools, indoor air quality in 19% of schools and lighting in 16% of schools.

Rates of unsatisfactory environmental conditions were higher in schools in western states, or those where more than 40% of the students were approved to receive free or reduced-price lunch or where more

than 50% of students were minority students.

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# Physical Activity

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Darrel Lang, Ed.D.

Health and Physical Education Consultant Kansas Dept. of Education

between physical inactivity

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Heart **Association** 

American

cardiovascular mortality.1

in physical activity, know the implications of ent of the school health program activities, and value physical activity and its Physical education helps develop physically educated people who have the skills necesties, are physically fit, participate regularly he physical education componsary to perform a variety of physical activimakes unique contributions to and benefits from involvement in physical the total education of students. contributions to a healthful lifestyle.<sup>2</sup>

provide instruction and practices in physical Schools are the primary agencies that

In 1987, Congress passed Resolution 973 quality daily physical education programs encouraging state and local governments and local education agencies to provide

School Health In America

the public-private initiative that identified identified numerous physical activity and grade 12. In 1991, *Healthy People* 2000, <sup>4</sup> for all children in kindergarten through îtness objectives. These goals include: he public health goals for the decade,

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- "increase to at least 50% the proportion of children and adolescents in grades one to 12 who participate in daily school physical education."
- "increase to at least 50% the proportion of school physical education class time that students spend being physically active, preferably engaged in lifetime physical activities."

tional Education Goals is the objective that In addition, under goal three, Student Achievement and Citizenship, of the Na-'All students will have access to physical



education and health education to ensure they are healthy and fit."5

In 1995, the National Association for Sport and Physical Education (NASPE) released Physical Education Standards<sup>6</sup> that outline the need for knowledge, skills, attitudes, values, and behaviors of a physically educated person. According to these standards, a physically educated person:

- "demonstrates competency in many movement forms and proficiency in a few movement forms;"
- "applies movement concepts and principles to development of motor skills;"
- "exhibits a physically active lifestyle;"
  - "achieves and maintains a healthenhancing level of physical fitness;"

 "demonstrates responsible personal and social behavior in physical activity settings;"

 "demonstrates understanding and respect for differences among people in physical activity settings;" and

• "understands that physical activity provides opportunities for enjoyment, challenge, self-expression, and social interaction."

Although support for physical education and physical activity exists at the federal level, mandates/guidelines for physical education occur at the state level and are implemented at the local level.

This chapter reviews state mandates for physical education using data collected at the state level by the School Health Policies and Programs Study (SHPPS).

#### State Organization

Despite research demonstrating the benefits of daily physical activity, physical education is not included as an integral part of the total education program in most states. While 48 states (94%) required physical education, and one state (2%) recommended that schools offer physical education classes, only 17 states (33%) reported that the state's requirements for physical education are outcome-based and

Figure 4.1 State Requirements for School Physical Education	12	See leave silved by selve of the control of the con	3,3	elia 12	"Estley"	elitodis Signi	operois enion	338/10	elegged Solitos	a / .7. /	60,000 10,151		119	19.	/ %/	ENO	(9)	Se Jacob	81,84 (SC 17,103) 81,84 (SC 17,103)	6/16/	14	STOSPICOM SUCCESSION	345 344	Syle Spiloto	90. 8/4	Odle Selly	ladissim
Legal Requirements that Schools Offer Physical Education	•	•		•	•		•	•	•	•	•	•	•	•	•		_		•	•	•	-	•		•		1
States with Outcome-Based Physical Education Requirements	•										•	•		•			•					_	-				1
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Physical Activity

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only 13 states (26%) required a course in lifetime physical activity in high school.

Most states (48 states, 94%) required schools to offer physical education. As a legal basis for this requirement, 31 (61%) cited state legislation, 33 (65%) cited state education policy, 1 (2%) cited federal legislation, and 2 (4%) listed other mandates (Figure 4.1).

Thirty-nine states (76%) had a designated professional assigned to direct the physical education program. Only six state directors (12%) coordinated physical educa-

tion alone. Other responsibilities for the physical education director included:

- health education (20 states, 39%);
  - federally funded HIV education (eight states, 16%);
- federally funded Drug-Free Schools Program (six states, 12%);
- driver's education (five states, 10%);
  - school health services (three states,
    - 6%); and
      federally funded Nutrition Education and Training (one state, 2%).
      Three states (6%), Alabama, North

Carolina and Virginia, reported separate state directors for elementary and secondary physical education. Five states (10%) had a separate state director for adapted physical education.

### State-level Coordination

The quality and effectiveness of physical education can be enhanced by:

- provision of specific guidelines or a manual detailing programming;
  - staff development, programmatic assistance; and

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Figure 4.2 State Requirements for Physical Education by Grade Level	Instruction Required at Elementary Level	Instruction Required at Middle School Level	Instruction Required at Secondary level

Figure 4.2 State Requirements for Physical Education by Grade Level	STREET EDES OF ELECTION	EUEJU	Stor Stor	EDE TO A	THEFT	. & \ % I	TO BLOCK	~\~\*\	10.1	80.16	(%)	13/	10000 V	Digital Solid	Pilips S		BOJES	154	/ e, /	THOMAS OF THE PROPERTY OF THE	Pillona Pillona	\ W.\'		110 100 S 1 1 100 S 1 1 100 S 1 1 100 S 1 1 100 S 1 1 100 S 1 1 100 S 1 1 100 S 1 100	Sililio MA	
Instruction Required	•	•		•	•		•		_			•	•	•	•	•	•	•	•	•	•	•	•			
Instruction Required at Middle School Level	•		_	•	•	•	•	<u> </u>	<u> </u>				•	•	•	•	•	•	•	•	•	•	•	$\dashv$		
Instruction Required at Secondary Level	•	•	•	•	•	•	•	•			•	_	•	•			•	•	•	•	•	•	•			

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tains information on state requirements for works for physical education. Thirty-seven coordination of programming with and/or senior high school. Figure 4.2 constates (73%) provided guidelines at each evel - elementary, middle/junior high, written curriculum guidelines or framephysical education instruction by grade other components of the school health program. Forty-two states (82%) have

level. Evaluations addressed one or more of evaluation of physical education at the local monitoring. A few states conducted formal schools' physical education within the past two years; 33 states (65%) reported no Seventeen states (33%) monitored the following:

education curricula, guidelines, or frame- implementation of the physical work (nine states, 18%);

69

- qualifications for physical education teachers (eight states, 16%);
  - status of physical education policies (seven states, 14%);
- quality of staff development training in physical education (six states, 12%);
  - quality of goals, objectives, or outcomes in physical education (six states,
- study, state-level programming between the In the two years prior to the SHPPS other elements (four states, 8%).

state office for physical education and the

Eight states (16%) reported no joint statestate office for health education occurred counseling/psychology in 10 states (20%). service in 19 states (37%); school health evel activities. Fifteen states (29%) reservices in 18 states (35%); and school ported joint activities with community jointly in 38 states (75%); school food agencies or organizations.

Physical Activity and Health<sup>7</sup> pointed up the Health, Physical Education, Recreation and value of developing a process or infrastrucions and organizations were affiliated with state agencies or departments that address planning of programs between and among reported state coalitions and organizations school-aged child. Forty-four states (86%) ture at the state level that promotes joint for physical education staff. These coalisome aspect of health promotion for the majority with the American Alliance for national professional organizations, the The Surgeon General's Report on Dance (AAHPERD)

### Staff Development

the hours required and the number of years allowed to complete the coursework varied To retain certification, 32 states (63%) from two to 180 hours and allowed one to obtain continuing education credits. Both required physical education teachers to considerably. States required anywhere six years to complete the requirement.

prior to the SHPPS, 37 states (72%) offered physical education inservice training. The However, only five states (10%) required ohysical education. During the two years that coursework be related directly to nservice topics included:

- teaching sports, games, or activities (25 states, 49%);
  - developing individualized fitness programs (26 states, 51%);
    - fitness testing (24 states, 47%);
- in physical education class (26 states, 51%); increasing students' physical activity
  - staff wellness (24 states, 47%); and
- of physical educators who received inservice The total for all states reporting was 20,360. Sixteen states (31%) provided numbers training. The range was from 35 to 5,000. other programs (10 states, 20%).

education teachers. Topics of these materistates (69%) provided materials to physical In the two years prior to the study, 35 als included:

- teaching sports, games, or activities (23 states, 45%);
  - administration and use of fitness testing (22 states, 43%);
- increasing students' physical activity in physical education class (20 states, 39%);
  - staff wellness (20 states, 39%);
- developing individualized fitness programs (18 states, 35%)
- involving families in physical activity (13 states, 26%); and

increasing students' physical activity outside physical education class (11 states,

ines specific for elementary, middle/junior provided guidelines to assist local districts Thirty-seven states (73%) provided guide-Curricula: Forty-two states (82%) in developing their physical education. high, and senior high levels.

The content of states' written curricula written guidelines included the following or framework varied. States sharing their elements in the curricular guides:

- goals, objectives, or outcomes (38 states, 75%);
- scope and sequence chart (23 states, • 45%);
  - subject matter content (23 states,
- resources (16 states, 32%);
- learning activities (14 states, 27%); student assessment plans (eight
  - states, 16%);
- curriculum evaluation plans (six states, 12%);
- lesson plans (four states, 8%); and
- other elements (nine states, 18%).

Written goals or outcomes in such guidelines included:

elementary level by 37 states (73%), at the middle/junior high level by 40 states (78%) knowledge about physical activity and benefits of physical activity -- at the

and at the senior high level by 42 states (82%).

- activity at the elementary level by 34 states (67%), at the middle/junior high level by 36 states (71%), and at the senior high level by positive attitudes toward physical 38 states (75%).
- physical activities at the elementary level high level by 39 states (77%), and at the by 36 states (71%), at the middle/junior skills in sports, games and other senior high level by 41 states (80%).
- participation in physical activity at the elementary level by 35 states (69%), at (73%), and at the senior high level by 39 the middle/junior high level by 37 states states (77%); and
- junior high level by 35 states (69%), and at fitness levels - at the elementary the senior high level by 36 states (71%). level by 31 states (61%), at the middle/

schools to use the states' guidelines and 14 monitor compliance with the state's guidelines, 17 states (33%) conducted periodic states (28%) recommended their use. To reports, seven states (14%) required that required that schools submit compliance districts submit compliance reports. Six Twenty-one states (41%) required on-site monitoring, eight states (16%) states (12%) used other means.

(12%) approved or recommended commerat the elementary level, five states (10%) at topics as part of physical education classes cial physical education curricula. Six states the middle/junior high level, and six states (12%) required teaching health education Commercial Curricula: Six states (12%) at the senior high level

actively exercise. In typical physical educaion classes, less than 30% of class time is physical education classes, children must achieve the public health benefits from spent in moderate to heavy exercise.<sup>8-12</sup> Increasing Activity Levels. To

include: physical education classes that have opportunities for intramural and interschostates, 31%); periodic in-classroom fitness 22%); 30 minutes of physical activity daily oreaks during the day (eight states, 16%); minutes at least three times per week (16 from all sources (eight states, 16%); and continuous exercise lasting 20 or more To increase the amount of physical lastic sports for all students (11 states, other recommendations (seven states, education classes. Recommendations activity, 25 states (49%) have specific recommendations for school physical

(71%) had state-required academic testing Academic testing: Thirty-six states

education topics were not included on the (Kentucky, Maine, Michigan, Minnesota, Oregon, Rhode Island) included physical state-required academic tests. Six states of students. In 30 states (59%) physical education topics on state-required academic student testing. Class size: Nine states (18%) specified a maximum number of students per required physical education class, ranging from 30 to 40.

classes. While 10 states (20%) allowed no Substitutes for physical education

clubs such as band, chorus, or cheerleading; jects; three states (6%) for parental request; ity. Eleven states (22%) cited other reasons. tion, eight states (16%) allowed exemptions Altogether, 20 states (39%) allow substituand three states (6%) for cognitive disabilthree states (6%) for other academic subsubstitutions for required physical educaor participation in interscholastic sports tions for required physical education for states (6%) for other school activities or practice or training; six states (12%) for other physical education courses; three physical disability; five states (10%) for one or more reasons.

required or recommended for students with (14%) required or recommended no physistudents. However, physical education was Special needs students. Seven states states (51%); and with other conditions in with temporary physical limitations in 26 cognitive disabilities in 30 states (59%); cal education classes for special needs 14 states (28%).

fitness testing measures one or more of the endurance, flexibility, and body composifollowing fitness components: muscular strength and endurance, cardiovascular Physical fitness testing: Physical

Figure 4.3 State Requirements for Fitness Testing by Grade Level	O RIO (S) SE SI END END END OF SE SI O SI O SI O SI O SI O SI O SI O S	Cupers	636	िर्धियु र	College,	S. Closes	811103 811103 811103	0.\ %.\	Inogoelija		, \'\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		llemely elogely		\ <u>(%)</u>	1 62 1		sesue x	Seeling Seeling	Sile Mario	elese in	\ '\ '\ '\ '\ '\ '\ '\ '\ '\ '\ '\ '\ '\	45 P P P P P P P P P P P P P P P P P P P	STORY SOLISIAN	Stose liling	100 se 14 8 10 se 14 14 1	lools sim
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rigure 4.3 State Requirements for Fitness Testing by Grade Level	Physical Fitness Testing Required - Elementary Level	Physical Fitness Testing Required - Middle School Level	Physical Fitness Testing Reguired - Secondary Level
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Physical Activity

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tion. Testing results can be used in developing individualized prescriptions for improving students' physical fitness.

In the School Health Policies and Programs Study, 17 states (33%) neither required nor recommended fitness testing in physical education. Twelve states (24%) required testing, and 22 states (43%) recommend testing. Of those states requiring or recommending fitness testing, 28 states (55%) did so at the elementary level, 32 states (63%) at the middle/junior high level, and 32 states (63%) at the senior high level.

suggested the AAHPERD Physical Best; 14 Challenge, 10 states (20%) the AAHPERD Institute for Aerobics Research/Prudential; battery. Three states (6%), Maryland, New York, and Rhode Island, used a fitness test states did not specify a specific fitness test Fitness Test; and one state (2%) the Amaquired or recommended varied, and some seven states (14%) the AAHPERD Youth states recommended more than one. Ten (18%) the Fitnessgram sponsored by the Health Related Fitness Test; nine states states (28%) the President's Council on The specific fitness test batteries redeveloped by the state; 14 states (28%) Physical Fitness & Sports Presidential eur Athletic Union fitness test

School athletics. Thirty-one states (61%) reported that a governing body

associated with the state education agency regulated interscholastic athletics in the state. All but three states (94%), Louisiana, New Mexico, and Tennessee, have a state-level coalition or association for interscholastic sport coaches. In 37 states (73%) the coalitions or associations are affiliated with national professional organizations.

knowledge that all coaches should possess and management of injuries; risk managecies cover eight domains: prevention care ment; growth, development and learning; administration; and professional preparaskills, tactics and strategies; teaching and youth. 12 The 37 standards or competensocial/psychological aspects of coaching; and Physical Education, using a consenmedical associations, published national sus building model with other sports or positive skill development of America's The National Association for Sport standards for athletic coaches in 1995. training, conditioning, and nutrition; to ensure the enjoyment, safety, and The standards identify the skills and tion and development. 12

The School Health Policies and Programs Study found that 14 states (28%) had no state requirements for qualification as a coach; 23 states (45%) required state certification as a teacher; 16 states (32%) required completion of a state-required coaching inservice train-

ing; two states required prior experience as a coach in the sport; and eight (16%) states had other qualification requirements. Of the topics coaches were required to complete during inservice training, 20 states (39%) required injury prevention and first aid; 12 (24%) required scientific foundations of sports performance, 11 states (22%) required philosophy of youth sport programming; 11 states (22%) required coaching techniques; and six states (12%) had other requirements. Twenty-eight states (55%) had no state requirements for inservice training of coaches.

#### Policy Guidelines

States varied in their written policies to guide coaches and student athletes on risk-behaviors such as use of tobacco, steroids, alcohol, or other drugs or unhealthy weight loss practices.

Of the 16 states (32%) that had written policies in place addressing the use of tobacco products by student athletes, policies in 13 states (26%) included coaches. Twenty-three states (46%) had a written policy addressing the use of steroids by athletes, 22 states (43%) had a written policy addressing the use of alcohol and other drugs by athletes, and 12 states (24%) had a written policy addressing unhealthy weight loss practices by athletes.

School Health In America

physical education. Professional preparation education at either the elementary, middle standards, however, range from 18 to 54 school, or high school level should have specific preparation and certification in hours of credit, and certification can re-Ideally, personnel teaching physical quire as few as nine hours of physical education instruction.<sup>13</sup>

piled by the National Association of Sport The Shape of the Nation Report com-

grade levels, such as elementary, middle, or classes are taught by specialists, but as many that a high proportion of physical education and Physical Education (NASPE) indicated Figure 4.4 shows the states that required or as one-third of these specialists do not hold physical education. While three-fourths of valid certification in physical education. 13 more than one-half of the states also rethe states required a K-12 certification, quired specific certification for various recommended teacher certification in

secondary school.

rate certificate or in conjunction with health sional preparation programs for the two are Although health education was formally continued to be linked both in professional recognized as a specialty area in the 1920s, certification was available as either a sepapractice and preservice training. Profession. 14 In some states physical education physical education and health education often housed in the same academic divieducation. Only four states (8%) did not

Figure 4.4

EUGRIA eyseld) emeder Physical Education Certification State Requirements Regarding for Instructors by Grade Level

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Figure 4.4

inox GOYED S eniloses Due s epous isolite of GOBOLO ·e/AO ONO ejoyed N eunore) N TIOT WORK ton non Tagler Nan duel non EDENON eyse iden EUEJION Physical Education Certification State Requirements Regarding for Instructors by Grade Level

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Physical Activity

## offer a separate teaching

offer a separate teaching certificate in physical education at some level.

Fifteen states (29%) offered a combined teacher certification or endorsement in physical education and health education at the K-12 level, seven states at the elementary level (14%), 11 states at middle/junior high level (22%), and 11 states at the senior high level (22%). Twenty-nine states (57%) did not offer a combined teacher certification or endorsement in physical education and health education.

Thirty-seven states (37%) offered a separate teaching certificate in physical education for K-12; 16 states (31%) at the elementary level, 18 states (35%) at the middle/junior high level, and 22 states (43%) at the senior high level.

Qualifications for certification as a physical education teacher varied. Thirtyfour states (67%) required a baccalaureate degree in physical education or a related major, plus a specified number of education credits; 30 states (59%) allowed a baccalaureate degree in education with a specified number of credits in physical education. Fifteen states (29%) required passing a

## Improving Physical Education

The School Health Policies and Programs Study asked state directors for physical education four open-ended questions. The most frequent responses were:

# What would you like to do in physical education in your state that you have not been able to do?

- provide certified physical education specialists at the elementary level.
  - mandate daily quality physical
    - education.
- have a K-12 curriculum guide.include physical education as a part
- of the state testing program.

   establish a network of curriculum specialists.
- revise state regulations including assessment.
- eliminate the academic and athletic exemptions.
- cap the number of students that can be in elementary physical education classes.

# What has prevented you from doing the things you just described?

- funding.
- no consultant at the state department.
- lack of commitment from administration.

quired separate physical education certifica-

tion at the secondary level

education teachers have a separate physical

education certificate, while 45 (88%) re-

state competency exam. Only eight states

(16%) required that elementary physical

• local control, legislative action not a high priority, lack of time and resources, and the current political climate.

# What has been the most helpful to you in improving physical education in your state?

- coalition building/networking/and collaboration with state health and physical education AAHPERD associations.
- adoption and publication of the new physical education framework.
- attending conferences that focus on physical education, staff development, better public relations, administrative support, and embracing the comprehensive school health model.

#### What suggestions or recommendations do you have to improve physical education in your state?

- revise core-curriculum and include physical education in school reform and Goals 2000, including increased requirements for physical education.
  - provide more funding for teacher inservice and policy updates.
- improve professional preparation of new teachers.
- continue to work within the school health program model.

#### Summary

organizations to promote physical education education (75%), school food service (37%), opment, only 21 states required compliance and physical activity. While 42 states (82%)education. Joint programming between the (43%), tobacco use in 16 states (32%), and state office of physical education and other Policies for school-sponsored athletics that provided guidelines to assist local districts with physical education curriculum develprogram occurred most often with health four states (86%) had state coalitions and and school health services (35%). Fortywith the state's guidelines. Twelve states states (43%) recommended this practice. (24%) required fitness testing, while 22 weight loss practices in 12 states (24%). Most states (94%) required physical address steroid use were adopted in 23 states (46%), alcohol use in 22 states component areas of the school health

Thirty-seven states (73%) had a separate baccalaureate degree in physical education health and physical education K-12 certificate. Thirty-four states (67%) required a teaching certificate in physical education. Fifteen states (29%) offered a combined or a related major in order to qualify for

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## School Health in America

## **Nutrition Services** School Food &

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Assistant Professor

Dept. of Health and Kinesiology Sam Houston State University

what they see and what they

developing attitudes about food and nutrition through

Children are constantly

experience. To avoid send-

nutrition, schools must rein-

force nutrition education programs with a school

ing mixed messages about

habits that can enhance their future health.7 hungry children have difficulty in A diet high in fat, saturated fat, and cholesand stroke as children mature and become students establishing appropriate nutrition well-established.2 Furthermore, he importance of good nutri-tion to the health of children is learning. <sup>3-6</sup> Providing nutritious meals and creases the risk for heart disease, cancer, nutrition education at school can lead to erol and low in fruits and vegetables inadults.8-10

the purpose of "safeguarding the health and Over 50 years ago, the U.S. adopted the well-being of the nation's children."11 The National School Lunch Act (NSLA) with goals of school food service is to provide nutritionally adequate meals at an

-- American Cancer Society

laboratory where children can

cafeteria that serves as a be coupled with a school

experiment with their newly

acquired information.<sup>1</sup>

families in need. Many children who benefit from school meals when school is in session vacations as school nutrition programs have education. The scope of the lunch program nas expanded over the years to include the accessible price and to promote nutrition unches and breakfasts for children and now also obtain meals during summer provision of free and reduced-priced extended to summer programs.

and breakfast menus provided one-fourth to one-third of RDAs averaged over a week. <sup>12</sup> Lunch Program lunches provide one-third allowance (RDA) of nutrients for students By the early 1990s, schools in the U.S. million breakfasts daily. 12 National School provided 27 million lunches and three to one-half of the recommended daily

ion in the classroom should

neans that nutrition educa-

to eating healthfully...This

atmosphere that is conducive

In 1977, Congress established the

Nutrition Education and Training (NET) Program to enhance nutrition education in schools. NET's goals are to "teach children, through a positive lunchroom experience and appropriate classroom reinforcement, the value of a nutritionally balanced diet, and to develop curricula and materials to train teachers and food service personnel to carry out this task." In 1989, Public Law 101-147<sup>14</sup> established the National School Food Service Management Institute (NSFSMI) to provide research, training,

and technical assistance that improves the general operation and quality of school food service programs nationwide.

The U.S. Dept. of Agriculture (USDA)

The U.S. Dept. of Agriculture (USDA) in collaboration with the U.S. Dept. of Health and Human Services (USDHHS) establishes the Dietary Guidelines for Americans. <sup>15,16</sup> The Guidelines recommended that Americans:

- eat a variety of foods;
- maintain a healthy weight;
- choose a diet low in fat, saturated fat, and cholesterol;

• choose a diet with plenty of vegetables, fruit, and grain products; and

• use sugars, salt, and sodium only in moderation.

These Guidelines provide a basis for many school food service menus.

The American School Food Service Association and the National School Food Service Management Institute established the Nutrition Integrity Standards that specify foods available in schools that are consistent with the guidelines and provide the recommended daily allowance.<sup>17</sup>

State Requirements for School Food Services To Offer Meals	enedely enedely	el es	elga ka	Ses ne sto	%\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<i>∖%</i> /%}—	Programme of the state of the s	~ / 13. /	eniolity .	elo loso		1.6.1	(3)	Sestien .	SESTION SES	E46. 4	Single Police Part of the Police	esniloes •	70g /44 —	000 8 8 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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In June 1994, the Food and Nutrition Service Division of the U.S. Dept. of Agriculture launched *Healthy Kids: Nutrition Objectives for School Meals*, which acknowledged its "national health responsibility to ensure that school meals make a positive contribution to the present and future health of our children."

This initiative recognized that despite the established link between nutrition and health, federal requirements for school meals had changed littleover the past half century.

Healthy Kids 18 proposed providing school meals that reflect the nutrition recommendations of the Dietary Guidelines for Americans through strategies such as updated nutrition standards and nutrient-based menu planning (NuMenus) replacing current rigid meal patterns, a nutrition education campaign, more effective administrative procedures, more nutrient appropriate commodities, and collaboration with other agencies to improve school meals. 18

### Methodology

This chapter reviews state mandates for school's nutrition services based on data collected as part of the School Health Policies and Programs Study (SHPPS). For more details on the study, see Chapter 1: Introduction.

### State Organization

Twenty-two states (43%) required that schools offer meals during the school day (Figure 5.1).

All states and the District of Columbia (100%) had a person responsible for directing school nutrition services. In seven states (14%), the director's only responsibility was for school nutrition services.

In many states the state nutrition services director was responsible for other nutrition programs including:

- coordinating the Women, Infants, and Children (WIC) nutrition program (44 states, 86%);
  - coordinating the Summer Food Service program (33 states, 65%);
- coordinating the Child Care/Adult Care program (33 states, 65%);
  - coordinating the Nutrition and Education Training (NET) program (29 states, 57%);
- coordinating the USDA donated food program (24 states, 47%); and

• coordinating other programs (15 states, 29%).

Traditionally, local education agencies employed food service personnel to manage the programs. However, 46 states (90%) permited food service management companies and 28 states (55%) permited fast food restaurants to offer foods as part of school breakfast or lunch programs.

### State Coordination

The quality and effectiveness of a state's support for school nutrition services can benefit from collaboration with other state agencies that promote other components of the school health program.

Joint state-level activities occurred between state school nutrition services staff and those responsible for:

- health education in 34 states (67%);
  - school health services in 22 states 3%);physical education in 13 states
- (25%); school counseling/psychology in one
  - state (2%); and
     community agencies and organizations in 24 states (47%).

In addition, 48 states (94%) had statelevel coalitions or associations for school food service personnel, and in 46 states (96%) the coalition or association was affiliated with a national professional organization, most often the American School Food Service Association. Other national professional organizations with state-level affiliates included the Nutrition Coalition, Coalition Against Hunger, National Parents and Teachers Association, Alliance for Home Economics, Association of School Business Officials, American Dietetic Association, American Cancer Society, and American Heart Association.

## Programming Meal Planning and Participation

Healthy People 2000, the nation's agenda for health promotion and disease prevention, in Objective 2.17 calls for increasing to at least 90% the proportion of school lunch and breakfast services and child care food services with menus that are consistent with the Dietary Guidelines for Americans." Schools can implement the Dietary Guidelines through menu modifica-

tions that reduce the fat content of meals, increase the use of whole grain products, and reduce the use of sugars, salt, and foods high in sodium. A national sample of school meals evaluated in the School Nutrition and Dietary Assessment (SNDA)<sup>12</sup> found that school lunches averaged 39% of calories from fat, exceeding the 30% recommended by the guidelines. The U.S. Dept. of Agriculture's Final Regulation: School Meals Initiative for Healthy Children<sup>20</sup>

requires schools participating in the National School Lunch Program and the School Breakfast Program to implement the Dietary Guidelines for Americans by the 1996/97 school year unless granted a delay by the state agency.

In addition, the nutrition standards established by the Final Regulation: School Meals Initiative for Healthy Children recommended that school lunches provide one-third of the Recommended Daily

Figure 5.2 State Activities that Support the Dietary Guidelines for Americans	1	GO JIES ELOCIA E ELLEGEN	State.	LEGAL!	Sile X	Se Tiles	&/`3\	\$\$\ \?\	\$3\\%\\	Holeno C	1.46	elo lo es	lener!		\ <u>\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ </u>	\ \ <u>\</u>	EUROI	18	340	Ses Ses	4	4	Pule Sem	15/14	Signal Si	OS OLIV	S IS THE	000000000000000000000000000000000000000
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**School Food Service** 

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Allowances (RDA) and that school breakfasts provide one-fourth the RDA for protein, vitamins A and C, iron, calcium, and calories; varying minimum levels of nutrients and calories by age groups; and measuring compliance over a school week.

According to the School Health Policies and Programs Study (SHPPS) data, only one state (2%) required districts or schools to plan and prepare menus consistent with the Dietary Guidelines for Americans (DGAs) (Figure 5.2). However, states supported implementation of guidelines by:

- recommending that schools follow the DGAs in meal preparation (49 states,
- performing periodic on-site monitoring of compliance with the DGAs (23 states, 45%);
- performing other activities to monitor compliance with the DGAs (four states, 2%).
- requiring schools to submit periodic reports documenting compliance with the DGAs (one state, 2%); and
- requiring districts to submit periodic reports documenting compliance (one state,

Only one state (2%) neither required, nor recommended, implementation of the Dietary Guidelines for Americans.

### Competitive Foods

In addition to assuring that foods meet the Dietary Guidelines for Americans, schools need to help students practice good

3(

nutrition.

Currently, U.S. Dept. of Agriculture regulations restrict the sale of competitive foods in the food service area during meal times.<sup>21</sup> Organizations including the American School Health Association, American Medical Association, National Congress of Parents and Teachers, American Dental Association, and American Dietetic Association have urged local school boards to restrict the sale of foods sold anywhere in school in competition with school meals.<sup>22</sup>

Oregon recommends that supplemental or competitive food sold in schools should meet at least four criteria: 1) contain sufficient nutrient density, 2) not compromise children's dental health, 3) not contain excessive sodium, and 4) limit the use of food additives to restoring nutrients lost or extending shelf life.<sup>23</sup>

The SHPPS data indicated that numerous states have policies addressing competitive foods (Figure 5.3). These included policies on school vending machines (13 states, 26%) and the sale of foods that are not part of the school meal program (23 states, 45%).

One state (2%) had a policy about permitting students to leave school during lunch.

## Nutrition Education

In addition to providing nutritious and appealing meals for all students, school nutrition services offer nutrition interven-

health education. Nutrition education in the coordination of nutrition education between habits that promote health.24.25 To facilitate increasing to at least 75% the proportion of school children; coordinate nutrition educathe cafeteria and classroom, 50 state educathe nation's schools that provide nutrition grade, preferably as part of quality school ion in the cafeteria with that in the classclassroom and reinforced in the cafeteria related community services.<sup>22</sup> Objective choices can help students learn lifelong tion, referrals, and follow-up services to room; and maintain links with nutritioneducation from preschool through 12th 2.19 of Healthy People 200019 calls for districts in one or more of these ways: tion agencies (98%) helped schools or with opportunities for nutritious meal

- providing ideas for special nutritionrelated events (45 states, 90%);
  - providing strategies for involving food service staff in classrooms (38 states, 76%);
- providing strategies for using the cafeteria as a nutrition learning laboratory (36 states, 72%);
- arranging joint in-service training on nutrition education for school food service staff and classroom teachers (20 states, 40%); and
  - arranging regular meetings on nutrition education for school food service staff and classroom teachers (15 states, 30%) (Figure 5.4).

### Personnel

A food service director is "one who plans, organizes, directs, and administers a school food service and nutrition education program for a school district or multiple units, including a state agency." Eight states (16%) required districts to employ food service directors (Figure 5.1). Two states (4%) required schools to employ food service directors.

The American School Food Service Association, whose mission is to support implementation of nutritionally sound, financially accountable, and acceptable child nutrition education programs, has outlined food service director competen-

cies: <sup>26</sup> training and skills in program planning, resource allocation, financial management, facilities planning, organizing and implementing programs for nutrition education, and establishing marketing and communications programs.

Since 1973 the American School Food Service Association has granted voluntary certification to more than 28,000 food service personnel.<sup>26</sup> No mandatory national certification standards exist for food service directors.

The SHPPS data showed that 11 states (22%) required certification for district-level food service directors. Among these states, five required a baccalaureate degree

in nutrition or a related field for state certification, and four required completion of a state food service training program. Two states each required a minimum of a high school diploma or GED, an associate's degree in nutrition or a related field, a master's degree in nutrition or a related field, or ASFSA certification. Five of the states that offer certification required such certification for employment as a district-level food service director (Figure 5.1).

Thirteen states (26%) offer certification for school-level food service directors.

Among these states, six required completion of a state school food service training program, six required a high school diploma

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School Food Service



or GED, a baccalaureate degree in nutrition or a related field, and one requires an associate's degree in nutrition or related field.

To retain certification, seven states (14%) require district and school food service directors to obtain continuing education. The seven states require an average of 38 continuing education hours over one to five years. The range of required hours is 15-100. Seven states (14%) also required food service directors at the school level to obtain continuing education. They need an average of 26 continuing education hours over three to six years. The range of hours required is 6-60.

### Staff Development

Successful operation of school nutrition services depends on how effectively the staff functions. To provide acceptable, nutritious, and economical meals, staff need training in the planning and preparation of meals that meet the Dietary Guidelines for Americans. To promote nutrition education, staff need training on how to use the cafeteria as a learning laboratory. Assistance for state directors in providing programs at the local level is available from the National School Food Service Management Institute which has a library of resources for training materials for school nutrition programs. 27-32

In the two years prior to SHHPS, all state education agencies offered staff development training that addressed one or

more of the following:

- incorporating the Dietary Guidelines for Americans in school meals (50 states, 98%);
- making meals more appealing to students (48 states, 94%);
- promoting nutrition and school meals (48 states, 94%);
- neals (48 states, 94%);

   preparing food in a sanitary manner
  - 45 states, 88%);
- coordinating food service with nutrition education (43 states, 84%);
- evaluating nutrient content of meals (39 states, 76%); and
  - using the cafeteria as a learning laboratory (37 states, 73%).

The 43 states (84%) that provided staff development data estimated that during the two years prior to the study more than 153,000 school food service personnel attended these trainings.

During the years prior to the SHPPS, state education agencies provided materials for enhancing the knowledge and skills of school food service staff about one or more of the following:

- implementing Dietary Guidelines for Americans in school meals (50 states, 98%);
- promoting nutrition and school meals (47 states, 92%);
- making meals more appealing to students (42 states, 82%);
- preparing food in a sanitary manner (39 states, 77%);

- coordinating the food service program with nutrition education (38 states, 75%);
- evaluating nutrient content of meals (35 states, 69%); and
- using the cafeteria as a learning laboratory (33 states, 65%).

## Improving School Nutrition Services

The School Health Programs and Policies Study asked a series of open-ended questions about how to improve schools' nutrition services. Frequent responses of the state-level staff person responsible for school nutrition services follow each question.

# What would you like to do in school food service in your state that you have not been able to do?

- Conduct more workshops and training;
- Establish certification requirements;
  - Assess implementation of the Dietary Guidelines for Americans; and
- Increase breakfast participation;
- Conduct joint activities with teachers to integrate nutrition in the curriculum;
- Reduce competitive foods (develop policy, eliminate vending machines, prohibit junk food as fund raisers).

### What has prevented you from doing the things you just described?

- Lack of funds and resources;
- Lack of time;
- Shortage of staff;
- Lack of interest or acceptance of the value of School Food Programs by other professionals in the school; and

 Too many regulatory requirements (paperwork, monitoring reviews) to have time to provide technical assistance.

improving school food service in your What has been most helpful to you in state?

- Certification standards;
- Establishment of a coalition that

promotes the school food service program;

- The NET program and personnel;
- Support from school board, superintendent, principal, and others; and
  - Establishment of a state-wide training network (five states, 10%).

Figure 5.4 State Activities that Support Coordination of Nutrition Education	(EX	e <sub>lile</sub> ge <sub>l</sub> y	196.18	Cug X	Sesties Strong	entonos Sestiles	Solutos eluicos	33.01.00	Proposition of the state of the		editoli S	ED TOS S	1/2/49	161	18/10/11	Elielous Sio	18	186 3	Ses,	(18 CH)	14	Stantos Sen Sus Alexander	1156	Neshiolika Syeshiolika	100 8 14 100 8 14 100 10 10 10 10 10 10 10 10 10 10 10 10	18818	Iddissim
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Strategies Promoting Use of Cafeteria as a Learning Lab	•	•	•	•	•	•	•		•		•	•	•	•			•	•	•	•		•		•	•	•	
Strategies for Nutrition-Related Events	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	1
Joint Inservice for Food Service Staff & Teachers	•		•	•	•								•	•					•			•		•	•		
Regular Meetings on Nutrition Ed. for Food Service Staff & Teachers				•	•			•														•	$\neg$				

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Regular Meetings on Nutrition Ed. for Food Service Staff & Teachers	•		•		•		•		•	•	•			•			•					•					



**School Food Service** 



What suggestions or recommendations do you have to improve food service in your state?

- Conduct a marketing campaign
   about the value of a school food service
- Establish certification or minimum requirement standards for personnel;
- Increase the number of staff development programs;
  - Establish universal feeding for all
- Monitor implementation of the Dietary Guidelines for Americans; and
- Secure an increased commitment from public and school staff for school food service programs.

#### Summary

According to the data states provided to the SHPPS, 42 states did not require school districts or schools to employ a food service director, but all 51 states had a person directing or coordinating school nutrition services at the state level. In many states, nutrition services directors helped coordinate other programs such as NET, WIC, summer feeding, food distribution, and child/adult care programs.

Many states allowed food service management companies (46 states) or fast food restaurants (28 states) to offer food as part of school meals. In the two years prior to the SHPPS, more than one-half the states (34 states) had joint activities between

school food service and health education, while 38 states provided strategies for involving food service staff in classrooms. Implementation of the Dietary Guidelines for Americans was mandatory in only one state. Forty-nine states, however, recommend implementing the guidelines in school meal preparation. In the two years prior to SHPPS, 50 states offered training for their food service staff in implementing the guidelines in school nutrition programs

the guidelines in school nutrition programs and 23 states periodically monitored school meals for guideline compliance. Thirteen states had policies on vending machines and 23 states had policies on the sale of competitive foods. While most states provide both training and materials for food service personnel at the local level, most states (42) did not require districts or schools to employ a food service director with the prerequisite skills to manage the food service program.

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